



**Department of Health  
and Human Services**  
Health Resources and Services  
Administration

*1997 Report of  
Center Specific Graft  
and Patient Survival Rates*



**UNOS**

United Network for Organ Sharing



RD120.63

.U5

R46

1947

Heart

**1997 REPORT  
OF  
CENTER SPECIFIC  
GRAFT AND PATIENT  
SURVIVAL RATES**

**HEART VOLUME**

**This report was prepared by the United Network for Organ Sharing (UNOS)  
and was funded in part by the U.S. Department of Health and Human Services,  
Health Resources and Services Administration, Office of Special Programs,  
Division of Transplantation;  
under contract numbers 240-97-0001 and 240-97-0002,  
for the operation of the Organ Procurement and Transplantation Network  
and the U.S. Scientific Registry of Transplant Recipients**

**This report will be available on UNOS world wide web**

**[www.unos.org](http://www.unos.org)**

**International Standard Book Numbers (ISBN) 1-886651-14-0 (complete set)  
and 1-886651-20-5 (Heart Volume)  
International Standard Serial Number (ISSN) 1079-3666**



## PREFACE

The United Network for Organ Sharing (UNOS) operates the national Organ Procurement and Transplantation Network (OPTN) and the national Scientific Registry of Transplant Recipients. In this role, UNOS functions as both a contractor for the Federal Government and as a private, non-profit corporation. Under contract with the Health Resources and Services Administration, UNOS has operated the OPTN since September 30, 1986, and the Scientific Registry since September 30, 1987.

Under the terms of the Transplant Amendment Act of 1990, UNOS is required to determine center specific transplant survival rates for all solid organ transplants performed within the United States and provide this information to the Division of Transplantation. This *1997 Report of Center Specific Graft and Patient Survival Rates* represents the third biennial report, based largely on scientific Registry data, compiled and analyzed from January 1, 1988, through April 30, 1994.

There are 7 volumes in this report: 6 Organ Specific Volumes and 1 Executive Summary. The *organ specific volumes* contain a summary of the national graft and patient survival outcomes for each organ, as well as a description and distribution of the donor and recipient characteristics among programs. Also included in each organ specific volume is a *User's Guide* which provides guidance on how to read the data and use the report. The *Executive Summary* condenses the primary results from each organ specific volume and describes the technical methods used in creating this report.

### SUGGESTED CITATION FOR THIS REPORT

1997 Report of Center Specific Graft and Patient Survival Rates, UNOS, Richmond, VA, and the Division of Transplantation, Office of Special Programs, Health Resources and Services Administration, U.S. Department of Health and Human Services, Rockville, MD.

### Suggested Abbreviated Citation

1997 Center Specific Report. UNOS;  
DOT/HRSA/DHHS.

**Publications based upon UNOS data in this report or supplied upon request must include the above citation as well as the following statement:**

The data and analyses in the 1997 Report of Center Specific Graft and Patient Survival Rates have been supplied by UNOS. The authors alone are responsible for the reporting and interpretation of these data.

## ACKNOWLEDGMENTS

The data in this report were provided on a voluntary basis by transplant programs, histocompatibility laboratories and organ procurement organizations throughout the United States. The United Network for Organ Sharing (UNOS) gratefully acknowledges the efforts of program directors, administrators, data coordinators, and other transplant professionals, whose efforts have made it possible to compile and analyze transplantation data collected across the nation.

This report has been compiled through the collective efforts of many individuals. For their assistance, UNOS thanks Judith Braslow, Gwen Mayes, and Remy Aronoff of the Division of Transplantation, Office of Special Programs, Health Resources and Services Administration, U.S. Department of Health and Human Services.

UNOS also appreciates the guidance and advice provided by the Technical Oversight Subcommittee of the Scientific Advisory Committee, in particular, Steve Belle, Ph.D., Dennis E. Daniels, Ph.D., David Gjertson, Ph.D., Lawrence G. Hunsicker, M.D., Jeffrey D. Hosenpud, M.D., Charles F. Shield, III, M.D., and David E.R. Sutherland, M.D., Ph.D. For their suggestions and critical review of this report, we also wish to thank Barbara Bernhard, Steve Bynon, M.D., John M. Holman, M.D., Ph.D., Anne Carothers Kay, George B. Mallory, Jr., M.D., Lawrence F. McManus, M.D., Paul Oldam, Kevin Stump, R.N., B.S.N., Deborah C. Surlas, R.N.

We thank Mary D. Ellison, Ph.D. and Otis Patrick Daily, Ph.D. for their invaluable support. We also wish to acknowledge contributions by Erick Edwards, Ph.D., Leah Bennett, Ph.D., Berkeley Keck, M.P.H., B.S.N., Ray White, M.S., Bennie Fiol, Samia Buckingham, Denise Tripp, Emily Chandler, Denise Roberts, Elizabeth Goodman, and Mark Sampson.

Our sincere appreciation goes to Brenda Parham and Lauri Walker for their management of data integrity and quality. We are also indebted to the Clinical Data Systems staff: Derrick Wells, Shelby Harris, Linda Butler, Holly McGuire, Augustine Smith, and Claudia Bonaparte for their support. We thank our executive director, Walter K. Graham, Esq., for his

advice and encouragement.

Finally, UNOS gratefully acknowledges donor families and transplant recipients, whose courage has made advances in organ transplantation possible.

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# **I. USER'S GUIDE**

**About the Center Specific Report**  
**About the Organ Specific Volumes**  
**Glossary of Terms**  
**How Program Specific Data Are Presented**  
**What to Remember When Using the Report**  
**Where to Go For Help**





## I. USER'S GUIDE

### A. ABOUT THE 1997 REPORT OF CENTER SPECIFIC GRAFT AND PATIENT SURVIVAL RATES

Under the terms of the Scientific Registry contract with the Federal government and the 1990 Transplant Amendment Act, the United Network for Organ Sharing (UNOS) is required to determine and report program specific transplant survival data every two years. The *1997 Report of Center Specific Graft and Patient Survival Rates* comprises seven volumes:

1. Executive Summary
2. Kidney volume
3. Liver volume
4. Pancreas volume
5. Heart volume
6. Lung volume
7. Heart-Lung volume

**The Executive Summary** -- This document condenses the primary results from each organ specific volume and describes the technical methods used in creating this report.

**Organ specific volumes** -- These six volumes, one for each organ, form the core of the *1997 Report*. Each volume contains (1) a User's Guide, which provides guidance on how to use the report and interpret the data tables, (2) a summary of the national graft and patient survival outcomes, and (3) transplant program specific data: a survival rates table, a chart describing the distribution of risk factors for the transplant program and the nation and, in some cases, a written narrative provided by the transplant program.

*The 1997 Report:*

- Includes U.S. transplant data from January 1, 1988, through April 30, 1994. Excluded from these data are multi-organ transplants (except for kidney-pancreas and heart-lung transplants), heterotopic heart transplants, and living donor transplants (except for kidney).
- Adjusts for recipient and donor risk factors for each organ specific risk model (see Table I-1).

- Emphasizes short term as well as long term survival. Short term survival is defined at two time points, 1 month and 1 year following transplant. Long term survival is defined in two ways, as unconditional 3 year survival, and conditionally, as survival at 3 years post-transplant for grafts or patients who survive 1 year.

*The long-term conditional survival analysis provides an assessment of factors independent of those limited to the first year (e.g., the risk of surgical procedures and early acute rejection events).*

- Presents actual and expected graft and patient survival rates separately.
- Shows survival rates for two time periods (i.e., eras). Era 1 is from January 1, 1988, to April 30, 1992. Era 2 is from May 1, 1992, to April 30, 1994. *Era specific survival rates allow assessment of whether a program's performance improves over time.* Three year survival analysis is only possible for data from Era 1 due to insufficient follow-up on patients who received transplants in Era 2.

### B. ABOUT THE ORGAN SPECIFIC VOLUMES

There are six organ specific volumes in this report: one for kidney, liver, pancreas, heart, lung, and heart-lung. Each volume first presents a general summary of the key results from the analysis, including:

- a synopsis of the data quality, the number of transplants and outcomes studied;
- a description of statistical models used to describe the impact of donor and patient risk factors on survival and predict each program's expected survival rates at each time point of interest; and
- a summary of the national survival rates over time.

Each volume then shows specific survival data for each transplant program, listed by state. The data are presented in three parts:

1. Graft and Patient Survival Rates
2. Patient and Donor Characteristics

3. A Narrative Response From Each Transplant Program

Guidance on how to read the data and appropriate examples are described below.

**Table I-1. Recipient and Donor Risk Factors Considered in the Heart Models**

Recipient and Donor Factors Initially Considered	In the Final Survival Models?	
	Short-term	Long-term
First or Repeat Transplant	Yes	Yes
Recipient Age	Yes	Yes
Recipient Gender	Yes	No
Recipient Race	Yes	Yes
Recipient Medical Condition at Transplant	Yes	No
Recipient Medical Diagnosis at Transplant	Yes	No
Recipient on Life Support at Transplant	No	No
Recipient on Ventilator at Transplant	Yes	No
Recipient on VAD at Transplant	Yes	No
Recipient on IABP at Transplant	No	No
Cold Ischemic Time	Yes	No
Donor Age	Yes	Yes
Donor Gender	Yes	No
Donor Race	Yes	Yes
Blood Group Match (Donor vs. Recipient)	No	No
Year of Transplant Performed	Yes	No

### C. GLOSSARY OF TERMS

*The general terms and definitions listed below are used throughout this report. For a list of key terms used in the survival rates tables, please see page 4.*

**Center or Hospital** -- A facility which may have one or several transplant programs (e.g. one center with separate kidney, liver, and heart transplant programs).

**Center Effect** -- The quality of a transplant program. In this report, the center effect is quantified by the difference between a program's actual and expected survival rates (See page 3 for definitions of actual and expected survival rates).

**Clinical Significance** -- This indicates an effect that is medically important regardless of whether or not it achieves statistical significance.

**Coefficient** -- A number estimated in a statistical

model that describes the mathematical relationship of a characteristic (e.g., age) to the outcome of interest (e.g., graft failure).

**Cohort** -- The observations selected for a study based on a specific time period. In this report, the overall cohort is defined as all transplants and patients between January 1, 1988, and April 30, 1994.

**Cold Ischemic Time** -- The time between retrieval of the organ from the donor and transplantation into the recipient.

**Conditional 3 Year Survival** -- In this report, it refers to the survival at 3 year post-transplant for those who survived at least 1 year. This provides an assessment of characteristics independent of those limited to the first year (e.g., surgical complications and early acute rejection events).

**Covariate or Factor** -- A characteristic (e.g., age,



race) considered in the statistical analysis.

**Era 1** -- January 1, 1988 - April 30, 1992.

**Era 2** -- May 1, 1992 - April 30, 1994.

**FU** -- Follow-up.

**Graft** -- The transplanted organ.

**Heterotopic Transplant** -- Procedure in which the donor heart is transplanted into the recipient, but the recipient's original heart is not removed.

**HR** -- Heart.

**Logistic Regression Model** -- A statistical model used to estimate the chance of occurrence of an event. In this report, it is applied to estimate the chance of graft or patient failure at specific time points following transplantation. Thus, it can be used to determine the expected survival rates for a transplant program.

**Odds** -- The relative chance in favor of one event over the other. For instance, the odds of graft failure refers to the chance of graft failure relative to the chance of graft functioning.

**Odds Ratio** -- The ratio of the odds for two groups. For example, if the odds ratio of graft failure for repeat versus primary transplants is 1.40, that means the odds of graft failure for repeat transplant is 40% greater than the odds of graft failure for primary transplant.

**Program** -- Individual organ transplant department (e.g., kidney program, liver program, heart program).

**P- Value** -- see Page 5 for definition.

**Recipient Age** -- Age of the recipient at the time of transplant.

**Reference Group** -- A group (e.g. White, male) chosen for each characteristic (e.g., race, gender) considered in the analysis with which the other groups (e.g., Black, Hispanic, female) can be compared. As a general rule, the largest group or the mean of the covariate (e.g., mean recipient age) is often used as the reference group.

**Statistical Significance** -- When a statistical test is rejected, the finding is statistically significant. For example, one of the hypotheses in this report is that an individual "center effect" does not exist for a particular transplant program. When the data show enough evidence to reject the hypothesis, the "center effect" is statistically significant for this transplant program. Often, the p-value provides a measure of statistical significance (also see page 5 for more details on p-value and statistical significance).

**Standard Error** -- A statistic that describes the degree of uncertainty that the estimated coefficient is accurate (also see "coefficient" above). The higher the standard error is, the less certain we are that the estimated coefficient is accurate.

**TX** -- Transplant.

## **D. HOW THE PROGRAM SPECIFIC DATA ARE PRESENTED**

### **Graft and Patient Survival Rates**

The data tables presented in this report should be used to find both the graft and patient survival rates at various time intervals. **Graft survival** refers to the percentage of grafts (i.e., transplanted organs) that are still functioning at a given time point after transplant. **Patient survival** refers to the percentage of patients who are alive at a given time point after transplant. Graft and patient survival rates do not necessarily correspond. It is possible to obtain a higher patient survival rate than graft survival rate within the same group of patients at a transplant program. For example, a patient's original heart graft might fail, but the patient can still survive through subsequent retransplantation. For vital organ transplants such as livers and hearts, graft and patient survival are more likely to correspond, as organ failure in these patients often means death.

In this report, graft and patient survival rates are given at 1 month, 1 year and 3 years. The 3 year survival rate is defined in two ways, as survival at 3 years conditional on survival at 1 year post-transplant, and at 3 years unconditionally. The focus of the long term analysis is on the conditional 3 year survival rates (see page 1).

**Actual survival rate** is the percentage of grafts (or patients) that survived at that transplant program for

the designated period of time. In the example shown in Table I-2, the actual overall 1 month graft survival rate for patients who received a heart transplant at ABC Hospital is 85%. This means that among all of the patients who received hearts at this hospital, 85% of the grafts were still functioning 1 month after transplant. This rate is statistically adjusted if a program had incomplete follow-up information on some of its patients.

Although the actual survival rate is valuable information, by itself it can be misleading because it is a function of both the effectiveness or quality of the services at a program *and* the characteristics of the patients at that program. For example, suppose that the patients who received hearts transplants at ABC Hospital were older or sicker than the patients at XYZ Hospital. These patient characteristics would likely result in a lower survival rate for ABC Hospital, even if both hospitals had equally effective transplant programs.

**Expected survival rate** is the survival rate expected after adjusting for recipient and donor characteristics such as race, age, and gender. Used to provide a more accurate interpretation of the actual survival rate, it is calculated using a sophisticated statistical procedure. First, risk factors are identified by fitting a mathematical model using the entire nation's transplant survival data to determine how these diverse factors are related to graft and patient survival. Then, each patient's expected survival rate is computed based on the national model. Finally, these expected survival rates are averaged over the patients from ABC Hospital to obtain ABC Hospital's expected survival rate.

*A positive difference between the actual and expected survival rates indicates that the program's actual rate is above the national survival rate for transplant patients and donors with the same characteristics. A negative difference between the actual and expected survival rates indicates that the program's actual rate is below the national survival rate for transplant patients and donors with the same characteristics.*

*Please note that actual survival rates which differ from expected survival rates are not always statistically significant and even statistically significant differences may not be clinically significant.*

For instance, in the example in Table I-2, the overall 1 year actual graft survival rate of 76.9% is higher than the expected graft survival rate of 73.4%. One might conclude that this heart program had a 1 year graft survival rate that was better than the national survival rate given the same patient characteristics.

### **Key Terms Used in the Survival Rates Tables**

**Actual Survival Rate (Act. Rate)** -- The percentage of patients who survived or grafts that functioned without failure for a given period of time after transplant. This rate is statistically adjusted if a transplant program's follow-up data are incomplete (see *Technical Methods* section of the *Executive Summary* for more details).

**Expected Survival Rate (Exp. Rate)** -- The survival rate expected at each program after adjusting for the indicated risk factors discussed in each organ specific volume of the report. In general, programs performing a large percentage of transplants on high risk patients have lower expected survival rates.

**Difference in Rates (Diff.)** -- The difference between the actual survival rate and the expected survival rate. A negative difference indicates that the actual rate is below the expected rate. A positive difference indicates that the actual rate is above the expected rate.

**Number with Complete Follow-Up Data (No. w/CFU)** -- The number of patients or grafts for which the status of the patient or transplanted graft was known at the end of the specified time interval (e.g., known status at 1 year post transplant).

**Number Died (No. Died)** -- The number of patients who died within a specified time interval.

**Number Failed (No. Failed)** -- The number of grafts that failed within a specified time interval.

**Number of Patients (No. of Pts.)** -- The number of patients transplanted at the transplant program, used to calculate patient survival rates at 1 month, 1 year, or 3 years, both unconditional and conditional on survival to 1 year. *Please Note:* For conditional 3 year survival rates, this number excludes those patients that either died or were lost to follow-up during the first year following the date of transplant. The number of patients in Era 1 and Era 2 may not

add up to the total number of patients in the overall period. This is due to multiple transplants in different eras for some patients. For example, if a patient had her first transplant in Era 1 and a second transplant in Era 2, she would be counted twice, once in each era, in calculating the era-specific survival rates but only once in calculating the overall survival rate.

**Number of Transplants (No. of TX)** -- The number of transplants performed at the transplant program, used to calculate graft survival rates at 1 month, 1 year, or 3 years, both unconditional and conditional on survival to 1 year. *Please Note:* For conditional 3 year survival rates, this number excludes those grafts that either failed or were lost to follow-up during the first year following the date of transplant.

**P-value** -- The p-value provides a measure of statistical significance. The smaller the p-value, the less likely an observed measurement is due to chance alone. A p-value of less than 0.05 ( $<0.05$ ) means that there is a statistically significant difference between the actual survival rate and the expected survival rate. (See *Chance Differences and Statistical Significance* below for a detailed explanation of statistical significance.)

**Time Point** -- The specific time at which survival is calculated, either at 1 month, 1 year, or 3 years conditionally and unconditionally following transplant.

### Chance Differences and Statistical Significance

In comparing expected and actual survival rates, it is important to pay attention to both the size of the difference and the number of transplants on which these survival rates are based.

Suppose the expected survival rate is 70% at ABC Hospital and its actual survival rate is 68%. This two percentage point difference is so small that it does not have much clinical significance. Even if it were statistically significant you probably would not want to base any decisions on which transplant program to use based on this difference. On the other hand, if the two rates were 70% and 60%, you might feel safer receiving a transplant at a program with a higher actual than expected survival rate for the type of transplant that you need.

It is also important to note the number of transplants that a program has done. The more transplants performed, the more confident you can be that the difference between actual and expected survival rates reflects the quality of the program rather than accidental factors or chance.

For example, suppose that ABC Hospital has an expected survival rate of 60% and an actual survival rate of 80%. If ABC has done only five transplants, you would not be very confident that its actual survival rate is higher than the average for other programs. It may be due to chance that the five patients who received their transplants at ABC were very strong people and, therefore, survived their operations. However, if ABC has done 500 transplants and its survival rate is 10 percentage points above its expected rate, it would be very unlikely that this was due to chance occurrence. You would be more confident that the difference reflects a real difference in quality between ABC Hospital and other programs.

When a difference between an expected and an actual survival rate is large and is based on many transplant cases, statisticians call the difference "statistically significant." Statistically significant differences are unlikely to be caused by chance factors and are likely to reflect a true difference between actual and expected survival rates.

There are statistical tests used to determine when a difference is statistically significant. One such test is used with the program specific survival data presented in this report. Look at the last column in the survival tables, marked "p-value." When this value is low, the difference between the actual and expected survival rate for that program is statistically significant. Very low p-values are .01, .02, .03, .04, and .05. Marginally low p-values, values that are close to significance, are .06, .07, .08, .09, and .10. Keep in mind that p-values are only approximate, especially those based on a few transplant cases. *For purposes of this report, differences with a p-value less than .05 are considered statistically significant.*

There are two further cautions in interpreting statistical significance:

1. If a program has done a great many transplants, even a very small difference between actual and expected rates can be *statistically significant*.



Table I-2. Example of Graft and Patient Survival Rates Table

## Heart Transplants: January 1, 1988 - April 30, 1994

Survival Report for America Medical Center - Anywhere  
Provider Number 000000 (ABC)Graft Survival

Time Point	Era 1: 1/1/88-4/30/92			Era 2: 5/1/92-4/30/94			Overall: 1/1/88-4/30/94						
	No. of TX	Act. Rate (%)	Exp. Rate (%)	No. of TX	Act. Rate (%)	Exp. Rate (%)	No. of TX	No. <sup>1</sup> w/CFU	No. Failed	Act. Rate (%)	Exp. Rate (%)	Diff. (%)	p- <sup>2</sup> value
1 Month	44	84.5	78.9	44	85.1	83.6	88	84	13	84.5	80.7	3.8	0.03
1 Year	44	62.1	71.4	44	80.9	76.6	88	75	26	67.9	73.4	-5.5	<0.01*
Cond <sup>3</sup> 3 Years	25	68.5	89.9				25	18	7	68.5	74.5	-6.0	0.17
3 Years <sup>3</sup>		42.5	64.2										

Patient Survival

Time Point	Era 1: 1/1/88-4/30/92			Era 2: 5/1/92-4/30/94			Overall: 1/1/88-4/30/94						
	No. of Pts. <sup>4</sup>	Act. Rate (%)	Exp. Rate (%)	No. of Pts. <sup>4</sup>	Act. Rate (%)	Exp. Rate (%)	No. of Pts. <sup>4</sup>	No. <sup>1,5</sup> w/CFU	No. <sup>5</sup> Dead	Act. Rate (%)	Exp. Rate (%)	Diff. (%)	p- <sup>2</sup> value
1 Month	44	91.4	86.1	43	91.2	89.5	87	83.0	12.0	85.5	87.4	-1.9	0.04
1 Year	44	62.1	80.4	43	88.4	84.2	87	74.0	25.0	66.2	81.9	-15.7	<0.01*
Cond <sup>3</sup> 3 Years	25	68.5	90.9				25	18.0	7.0	72.0	72.3	-0.3	0.33
3 Years <sup>3</sup>		42.5	73.1										

- Notes:
- <sup>1</sup> No. with complete follow-up (CFU) is the total of the number of patients (grafts) whose status was known during the specified time interval.
  - <sup>2</sup> A p-value followed by an \* indicates that the difference is statistically significant at the 0.05 level.
  - <sup>3</sup> Conditional 3 year survival rates are the survival rates conditional on survival at 1 year. These are computed based on transplants between 1/1/88 and 4/30/92. Three year survival rates are computed by multiplying the 1 year and the conditional 3 year survival rates.
  - <sup>4</sup> The numbers of patients in Era 1 and Era 2 do not necessarily add up to the number of patients in the overall period, due to repeat transplants in different eras for some patients.
  - <sup>5</sup> No. w/CFU or No. Died may be fractional if patients received more than one transplant at the program.

Table I-3. Example of Donor and Recipient Characteristics Table

Heart Transplants: January 1, 1988 - April 30, 1994  
Donor and Recipient Characteristics: Program and National Frequencies

America Medical Center - Anywhere  
Provider Number 000000 (ABC)

		---- Program ----		--- National ---	
		Number	%	Number	%
<b>Total Transplants and Percentages</b>		<b>88</b>	<b>100.0</b>	<b>2135</b>	<b>100.0</b>
<b>Donor Gender</b>	Female	40	45.4	633	29.6
	Male	48	54.5	1502	70.4
<b>Donor Age</b>	0-5	7	7.9	33	1.5
	6-10	5	5.7	54	2.5
	11-17	15	17.0	449	21.0
	18-35	41	46.6	1104	51.7
	36-49	17	19.3	410	19.2

2. However, if a program has done a great many transplants, very small differences are probably not *clinically significant*, and therefore are not large enough to influence the choice of a transplant program. Clinical significance means the difference is large enough to have practical importance for someone choosing a transplant program.

For additional information on the study methods, see the *Technical Methods* section in the *Executive Summary*.

### Donor and Recipient Characteristics

The second section of each transplant program's data consists of a table comparing donor and recipient characteristics of the transplant program's patients to those same characteristics among transplant programs nationwide.

In the example in Table I-3, the transplant program performed a total of 88 heart transplants between January 1, 1988, and April 30, 1994. Of these, 17% received hearts from donors aged 11-17. This is 3% lower than the national percentage of 21.0%. As a result, the actual survival outcomes for this program might be a little lower than the national average had

all other variables been equal, since survival for organs from adolescent donors is generally higher than that from older donors.

### Optional Narrative Response From Each Transplant Program

The narrative response represents the transplant program's interpretation of its graft and patient survival rates. It has been submitted by the transplant program and has not been edited except to remove patient identifiers. The narrative response explains in detail those factors unique to the transplant program's performance which may not be reflected in the data as they are reported. For example, a transplant program may have had a change in staff which temporarily affected the number of patients that were transplanted. **Not every transplant program provided a statement.** Table I-4 is a hypothetical example of a narrative response from a transplant program.

### **E. WHAT TO REMEMBER WHEN USING THE REPORT**

When using the *1997 Report of Center Specific Graft and Patient Survival Rates* you should remember that:

Table I-4. Example of Narrative.

The Heart Transplant Program at XYZ Hospital  
Public Comment Response

XYZ Hospital began performing heart transplants in December of 1987. From January 1, 1988 to April 30, 1994, we performed 88 heart transplants.

Our actual graft and patient survival data were nearly equivalent to our statistically expected outcomes. Our results were significantly affected by one untimely death in the early post-operative period. This death was associated with complications related to immunosuppression and not related specifically to the heart transplant per se. Had we not experienced this mortality, our patient survival and graft outcome data would have been even better.

We are pleased with the growth and progress of our transplant program, here at XYZ Hospital. One of our limiting factors is the number of patients we can serve versus the ongoing problems of obtaining adequate numbers of organs for transplantation.

XYZ Hospital transplant program worked hard to meet the criteria to become a member of UNOS for heart, lung, and heart-lung transplants. We are proud of our transplant program and will continue to provide the highest patient care available anywhere.

E. T. Smith, M.D.  
Director of Transplantation

- Caution should be exercised in comparing one program to another because each program may reflect a special patient and donor pool. Conclusions should be based not only on the *Survival Rates Table* but also on the *Donor and Recipient Characteristics Table* and the optional *Narrative Response* provided by the transplant program.
- The *actual* survival rate may be misleading by itself because the actual survival rates are reflective of both the quality of the services at a program and the characteristics of the patients at that program.
- The *expected* survival rates show what survival rates are to be expected at a program if its patient and donor characteristics are taken into account. However, not all of the factors affecting graft and patient survival are included in the analysis. It is probable that there are other factors that have an impact on survival rates that could not be accounted for in this report.
- For the large majority of transplant programs,

the difference between actual and expected survival rates was not statistically significant.

- The number of transplants performed at a program is an important factor to consider when evaluating survival rates. In general, the more transplants a program has performed, the more closely the survival rates reflect the quality of the program.

Patients and their families also should consider other factors in selecting a transplant program, such as:

- The experience, training, and education of the transplant team and the medical and nursing care available throughout the process -- from candidate evaluation through transplantation and follow-up.
- The costs of the transplant procedure, physician services, hospitalization, and medications.
- The proximity of the transplant program to home and how easily it can be reached.



- The friends and family available for assistance before, during, and after the transplant.
- The quality and availability of post-transplant services.

## F. WHERE TO GO FOR HELP

**Personal physician** -- One of the most valuable resources for interpreting the data in the *1997 Report of Center Specific Graft and Patient Survival Rates* is a personal physician. Even if the physician does not have a copy of the report, s/he should be able to explain the differences between the types of data reported for the specific transplant programs of interest.

**The Transplant Program** -- Information about a transplant program's graft and patient survival rates should be available upon request of the transplant program. You might seek assistance from the transplant surgeon or physician, transplant coordinator, or social worker.

**National Organ Procurement and Transplantation Network (OPTN) and the Scientific Registry of Transplant Recipients** -- UNOS maintains the OPTN and the Scientific Registry and can be contacted for information about the report and for assistance with data interpretation. Please contact:

All *Patient* inquiries: (888)TXINFO-I

Research inquiries: UNOS Data Request Line --  
(804)330-8576 (phone) or  
(804)323-3794 (fax)

Media inquiries: (804) 327-1432

UNOS also maintains a **Web site** on the Internet from which visitors can retrieve the latest UNOS statistics, patient information, press releases, policies and by-laws, and other information pertinent to transplant professionals, the media, and the general public. The address is: [www.unos.org](http://www.unos.org).

UNOS also is producing the *1997 Report of the OPTN: Waiting List Activity and Donor Procurement*. The purpose of this report is to provide information relating to donor procurement and waiting list activity, including median waiting

times to transplant and percentage transplanted for the U.S. as well as each UNOS region and every OPO. Used in conjunction with the *1997 Report of Center Specific Graft and Patient Survival Rates*, patients and their families will have information on donor procurement rates and estimated waiting time to transplant given various patient clinical or demographic characteristics for each OPO and waiting list activity data for transplant centers within each OPO.

UNOS also has resource packets available for transplant patients or family members. These packets include brochures on the organ allocation process and questions patients should ask a transplant program, information on financial issues for transplant patients, summary transplant statistics and details on obtaining more specific information from UNOS.

Beginning in 1998, transplant centers will provide a resource packet to every patient accepted for transplantation. In addition, UNOS maintains a toll-free request line (1-888-TXINFO-I) for anyone wishing to receive this information separately.

**The Federal Government** -- The *1997 Report of Center Specific Graft and Patient Survival Rates* was prepared by UNOS and was funded in part by the U.S. Department of Health and Human Services, Health Resources and Services Administration, Office of Special Programs, Division of Transplantation. For information on how to obtain a copy of the report, contact:

Health Resources and Services Administration  
Office of Special Programs  
Division of Transplantation  
5600 Fishers Lane  
Parklawn Bldg., Room 7-29  
Rockville, Maryland 20857 USA  
(301) 443-7577





## **II. SUMMARY CHAPTER**

### **Introduction**

#### **Completeness of Follow-Up Data and Survival Rates**

#### **Percentages of Actual and Expected Graft Survival Rates**

#### **Percentages of Actual and Expected Patient Survival Rates**

#### **Donor and Recipient Characteristics**

#### **Impact of Characteristics on Short Term Survival**

#### **Impact of Characteristics on Long Term Survival**

#### **Comparison Between Short and Long Term Characteristics**

#### **Statistical Methods and Models**

#### **Summary**

#### **Final Words**



## II. HEART TRANSPLANT SURVIVAL RATES

*For the Summary of this chapter, see page 23. For definitions of any terms used here, please refer to the User's Guide, beginning on page 2.*

### A. INTRODUCTION

This report of heart transplant survival rates is based upon verified Scientific Registry data for 12,627 transplants involving 12,428 patients from 161 heart transplant programs in the United States. Each program reporting at least one heart transplant between January 1, 1988, and April 30, 1994, was included. Multi-organ, heterotopic and living donor transplants were excluded.

Short term survival is defined as survival at 1 month and 1 year post-transplant. Short term survival rates are based on all transplants in the study for which there are follow-up data.

Long term survival is defined in two ways:

- unconditional survival at 3 years post-transplant, and
- survival at 3 years post-transplant for those who survived at least 1 year, referred to as **conditional 3 year survival**.

The long term survival rates are based on all transplants between January 1, 1988, and April 30, 1992, for which there are follow-up data. This cohort was chosen to ensure that the maximum number of transplants with follow-up data was used to determine long term survival rates. Please note that this report emphasizes *conditional* 3-year survival rates. This is because the conditional 3-year analysis assesses characteristics independent of those limited to the first year (e.g., surgical complications and early acute rejection events).

### B. COMPLETENESS OF FOLLOW-UP DATA AND OVERALL GRAFT AND PATIENT SURVIVAL RATES

For graft survival, completeness of follow-up data and overall actual survival rates at each time point are shown in Table II-1; patient survival data are

shown in Table II-2.

Patient (graft) follow-up data were considered complete when:

- the patient was alive (heart was functioning) and the duration of survival (function) was equal to or exceeded the specified time after transplant (i.e., 1 month, 1 or 3 years), or
- the patient died (heart failed) and a valid date of death (failure) was reported.

The percentages of complete follow-up data ranged from a low of 97.9% for the conditional 3 year time point to a high of 99.7% for the 1 month time point. Patient survival rates are similar to graft survival rates since patient death follows graft failure unless the patient is retransplanted.

Overall survival rates also are presented in the tables. If a graft had incomplete follow-up data, the observation was weighted to account for the time during which the graft was known to be functioning. Therefore, the actual graft survival rate reflects the weighted proportion of grafts functioning at the specified time interval. Patient survival rates were computed in a similar way (see the *Technical Methods* chapter of the *Executive Summary*).

In the cohort of transplants (1/1/88 - 4/30/92) used to compute conditional 3 year survival rates, patients (grafts) who did not survive to 1 year after transplant were excluded from the analyses. Therefore, the total number of patients (grafts) for the conditional 3 year analysis was less than that for the 1 month and 1 year analyses.

Please note that the conditional 3 year graft and patient survival rates in Tables II-1 and II-2, and in each program specific survival table, may be higher than the 1 year graft survival rates. This is possible because the conditional 3 year survival rate is the 3 year survival rate for patients (grafts) who (which) survived at least 1 year post-transplant.

For example: Program A performed a total of five transplants between 1/1/88 and 4/30/92. Two of the hearts failed prior to 1 year post-transplant and the

remaining three hearts survived to 3 years after transplant. In this example, Program A has a 1 year graft survival rate of 60% (3 out of 5 hearts were functioning at 1 year post-transplant). However, the conditional 3 year survival rate for Program A is 100% because all three hearts that were functioning at 1 year after transplant also were functioning at 3 years post-transplant. The same calculations are used for patient survival. See the *Technical Methods* chapter of the *Executive Summary* for more specific definitions of follow-up data and the calculations for actual graft and patient survival.

#### **Overall Graft and Patient Survival Rates by Era**

In this report, short term survival also is reported by era. Separate eras were used to determine whether there were any improvements over time in the short term survival rates. Era 1 is defined as all transplants occurring between January 1, 1988, and April 30, 1992; Era 2 includes all transplants occurring between May 1, 1992, and April 30, 1994. The overall graft and patient survival rates by era are

presented in the last two columns of Table II-1 and Table II-2, respectively. The results demonstrate consistent high graft and patient survival rates over time.

#### **C. GRAFT SURVIVAL -- PERCENTAGES OF ACTUAL AND EXPECTED SURVIVAL RATES**

For each transplant program, actual and expected survival rates were calculated at 1 month, 1 year, and 3 years conditional on survival at 1 year. Survival rates at each time point were determined using a specific cohort of transplants (shown in Tables II-1 and II-2). Expected survival rates were determined for each transplant program based on its specific patient and donor characteristics. These expected outcomes were statistically adjusted for many important prognostic variables, or covariates, that were used in the survival analysis. In other words, they take into account the many different characteristics that affect survival. For example: *if Program A transplanted many more "high risk" recipients than Program B, then Program A would*

**Table II-1. Completeness of Graft Follow-Up Data and Actual Survival Rates for Heart Transplants**

Time	Cohort	Number of Transplants	Percent with Follow-Up Data	Graft Survival (%)		
				Overall	Era 1	Era 2
1 Month	1/1/88 - 4/30/94	12,627	99.7	91.6	91.6	91.5
1 Year	1/1/88 - 4/30/94	12,627	98.9	81.7	81.5	81.9
Cond. 3 Years	1/1/88 - 4/30/92	6640	98.0	90.2*	90.2*	N/A*

**Table II-2. Completeness of Patient Follow-Up Data and Actual Survival Rates for Heart Transplants**

Time	Cohort	Number of Patients	Percent with Follow-Up Data	Patient Survival (%)		
				Overall	Era 1	Era 2
1 Month	1/1/88 - 4/30/94	12428	99.7	92.1	92.1	92.0
1 Year	1/1/88 - 4/30/94	12428	98.9	82.5	82.4	82.8
Cond. 3 Years	1/1/88 - 4/30/92	6620	97.9	90.7*	90.7*	N/A*

\* The cohort used to determine the overall conditional 3 year survival rate is the same as the Era 1 cohort. Therefore, the overall conditional 3 year survival rates are identical to the conditional 3 year survival rates for Era 1. There is no conditional 3 year survival rate calculated for Era 2 due to insufficient follow-up data on patients who received transplants in Era 2.

have a lower expected survival rate than Program B.

If a program's *actual* survival rate was *greater* than its expected survival rate, this means that the program's actual results were higher than the national results for transplants *with the same donor and recipient characteristics*. If a program's *actual* survival rate was *less than* its expected survival rate, this means that the program's actual results were lower than the national results for transplants *with the same donor and recipient characteristics*. *The difference between actual and expected rate may have occurred by chance, and therefore, may not be statistically significant*. Furthermore, even a statistically significant difference, one that most likely did not occur by chance, may not be clinically significant (i.e. medically important). A formal description of the methods used to determine actual and expected rates appears in the *Technical Methods* chapter of the *Executive Summary*.

Table II-3 shows the percentages of heart transplant programs by category of graft survival rates, both for actual and expected survival. The majority of the transplant programs had actual survival rates greater than 70% at all time points. The 1 year survival rates showed a greater variation among programs than the 1 month and conditional 3 year survival rates. At 1 month, 61% of programs had actual survival rates greater than 90%. At 1 year, this fell to 13%. However, this percentage increased to 57% for the conditional 3 year survival rates. The distribution of the expected survival rates shows a similar trend. The

results indicate that there are more programs with high survival rates (>90%) at the conditional 3 year time point than there are at the 1 year time point. *This is because the most critical period of time for graft survival is the first year post-transplant*. Those who survive the first year are very likely to survive 3 years post-transplant.

The percentages of programs by short term graft survival rates and eras, both for actual and expected survival, are summarized in Table II-4. The results demonstrate a slight improvement in graft survival over time because a greater percentage of programs had actual survival rates higher than 90% in Era 2.

#### Differences in Actual and Expected Survival Rates

For most programs, the difference between the actual survival rate and the expected survival rate was not statistically significant. Figure II-1 shows the percentages of programs whose actual graft survival rates were either above, not significantly different, or below expected graft survival rates at three time points. Actual survival rates shown in the figure to be either greater than or less than expected survival rates were statistically significant. Overall, there were more programs that fell significantly below expected results than programs that were significantly above expected results. However, for the majority of the transplant programs, the difference in actual and expected graft survival was not statistically significant and varied little across time points.

**Table II-3. Percentages of Heart Transplant Programs by Graft Survival Rates**

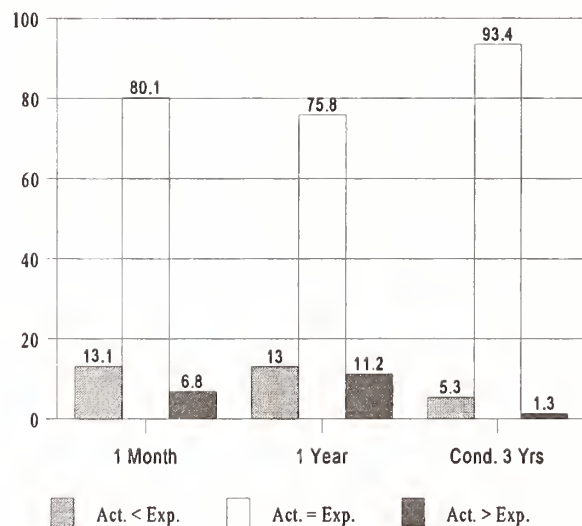
Graft Survival Rates (%)	Actual			Expected		
	1 Month (n= 161)	1 Year (n=161)	Cond. 3 Yrs (n=150)	1 Month (n=161)	1 Year (n=161)	Cond. 3 Yrs (n=150)
0-60	3.7	10.6	2.7	0.0	0.0	0.0
>60-70	1.8	8.1	2.6	0.0	6.2	0.7
>70-80	5.6	32.3	7.3	0.6	16.1	0.0
>80-90	28.0	36.0	30.7	16.8	77.6	40.0
>90-100	60.9	13.0	56.7	82.6	0.0	59.3
<b>TOTAL</b>	100.0	100.0	100.0	100.0	100.0	100.0



Table II-4. Percentages of Heart Transplant Programs by Graft Survival Rates and Era

Graft Survival Rates (%)	Actual				Expected			
	1 Month		1 Year		1 Month		1 Year	
	Era 1 (n=153)	Era 2 (n=150)	Era 1 (n=153)	Era 2 (n=150)	Era 1 (n=153)	Era 2 (n=150)	Era 1 (n=153)	Era 2 (n=150)
0-60	5.2	2.7	11.8	8.7	0.0	0.0	0.0	0.0
>60-70	1.3	3.3	9.8	10.0	0.0	0.0	7.2	4.0
>70-80	7.2	5.3	26.8	20.6	2.6	0.0	13.7	21.3
>80-90	26.1	24.7	34.6	36.0	17.0	18.7	79.1	74.7
>90-100	60.1	64.0	17.0	24.7	80.4	81.3	0.0	0.0
TOTAL	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

Figure II-1. Percentages of Heart Transplant Programs with Actual Graft Survival Rates Above, Below, or Equal to Expected Survival Rates. \*

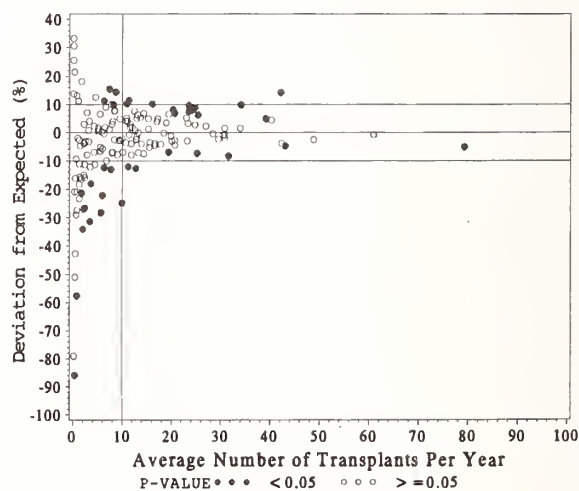


\*Actual survival rates above or below expected survival rates are statistically significant and varied little across time points.

At all time points, the larger differences in actual and expected rates were nearly always seen in programs that reported relatively few transplants during the period. This occurs because programs that do not perform many transplants tend to have highly variable outcomes. To illustrate this, Figure II-2

shows a scatter plot of the average number of transplants per year (transplant volume) versus the difference in 1 year actual and expected graft survival. Nearly all differences greater than 10% (either positive or negative) are found among transplant programs performing fewer than 10 heart transplants per year.

Figure II-2. Heart Transplant Volume vs Difference in Actual and Expected 1 Year Graft Survival Rates.



Please note that actual survival rates which differ from expected survival rates are not always statistically significant and even statistically significant differences may not be clinically significant.

**D. PATIENT SURVIVAL -- PERCENTAGES OF ACTUAL AND EXPECTED SURVIVAL RATES**

The percentages of programs by patient survival rates for both actual and expected survival are shown in Table II-5; the percentages of programs by survival rates and eras are shown in Table II-6. Note that both actual and expected patient survival rates were higher and less variable at each time point than were actual and expected graft survival rates. As with graft survival, the outcomes in Era 2 were better than in Era 1.

**Differences in Actual and Expected Survival Rates**

The percentage of programs with actual patient survival rates significantly above their expected rates was greatest at 1 year (see Figure II-3). Overall, there were more programs that fell significantly below expected results than above expected results. However, for the majority of transplant programs, the difference in actual and expected patient survival was not statistically significant and varied little across time points.

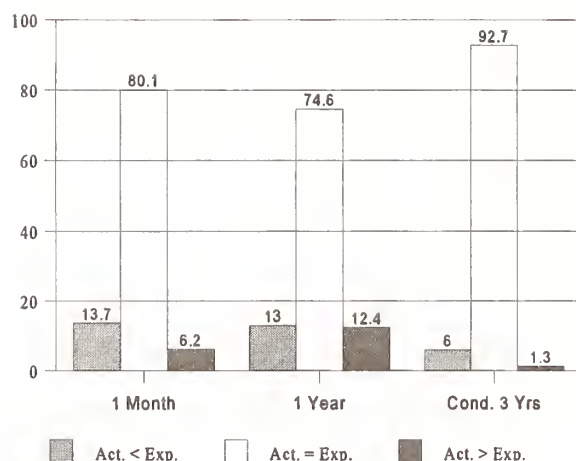
**Table II-5. Percentages of Heart Transplant Programs by Patient Survival Rates**

Patient Survival Rates (%)	Actual			Expected		
	1 Month (n=161)	1 Year (n=161)	Cond. 3 Yrs (n=150)	1 Month (n=161)	1 Year (n=161)	Cond. 3 Yrs (n=150)
0-70	5.6	18.0	5.3	0.0	3.7	0.0
>70-80	5.6	26.7	7.3	0.0	14.3	0.7
>80-90	25.5	41.0	28.0	16.8	82.0	29.3
>90-95	32.9	7.5	34.7	81.4	0.0	70.0
>95-100	30.4	6.8	24.7	1.9	0.0	0.0
<b>TOTAL</b>	100.0	100.0	100.0	100.0	100.0	100.0

**Table II-6. Percentages of Heart Transplant Programs by Patient Survival Rates and Era**

Patient Survival Rate (%)	Actual				Expected			
	1 Month		1 Year		1 Month		1 Year	
	Era 1 (n=153)	Era 2 (n=150)	Era 1 (n=153)	Era 2 (n=150)	Era 1 (n=153)	Era 2 (n=150)	Era 1 (n=153)	Era 2 (n=150)
0-70	6.5	5.3	19.0	16.7	0.0	0.0	5.2	2.0
>70-80	6.5	5.3	24.8	19.3	1.3	0.0	13.1	18.0
>80-90	24.2	22.7	37.3	38.0	15.0	18.0	81.7	80.0
>90-95	26.8	24.7	11.1	14.0	81.0	79.3	0.0	0.0
>95-100	35.9	42.0	7.8	12.0	2.6	2.7	0.0	0.0
<b>TOTAL</b>	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

**Figure II-3. Percentages of Heart Transplant Programs with Actual Patient Survival Rates Above, Below or Equal to Expected Survival Rates. \***



\*Actual survival rates above or below expected survival rates are statistically significant and varied little across time points.

### E. NATIONAL DISTRIBUTION OF DONOR AND RECIPIENT CHARACTERISTICS

The national distribution of donor and recipient characteristics for heart transplants, presented in percentages, is shown in Table II-7. Each of these donor and recipient characteristics was included in the analyses for graft or patient survival, and used to determine an expected survival rate for each transplant. The majority of hearts transplanted were recovered from white male donors between the ages of 18 and 49. Forty-five percent of the donor hearts had cold ischemic times less than 2.5 hours. The majority of heart recipients were white males greater than 50 years of age. Most recipients were either not hospitalized (46%) or in the ICU (45%) prior to transplant. The main indication for transplant was evenly divided between coronary artery disease (41%) and cardiomyopathy (46%). Of the 12,627 heart transplants performed, less than 3% were due to repeat transplants.

#### Donor and Recipient Trends

National donor and recipient characteristics differed slightly between Era 1 and Era 2. There was an increase in the percentage of younger donors in Era 2, and the percent of donors older than 50 years

almost doubled (3.6% to 6.5%). There was a 5% increase in the percentage of minority donors from Era 1 to Era 2. Transplant recipients were older in the second era; those over age 49 comprised 56% of recipients in Era 2 as compared to 53% in Era 1. More minorities were transplanted in Era 2 than in Era 1. Cardiomyopathy accounted for just under half of all diagnosis in Era 2 compared to only 44% in Era 1. More recipients were in the ICU at time of transplant in Era 2 than in Era 1. Also, mean cold ischemic time increased 4% from Era 1 to Era 2.

### F. SHORT TERM SURVIVAL -- IMPACT OF DONOR AND RECIPIENT CHARACTERISTICS

To determine the expected survival for each transplant or patient, separate analyses were performed for graft and patient survival at three time points. (The analyses were performed using logistic regression, for a description see the *Technical Methods* chapter in the *Executive Summary*.) The analyses also identified donor and recipient characteristics that had a significant impact on survival outcomes. For each *characteristic* (e.g., race, gender) considered in the analyses, a *reference group* was chosen (e.g., White, male) with which the other groups were compared. As a general rule, the largest group or the mean of the characteristic (e.g., mean recipient age=45) is often used as the reference group.

The following served as the characteristics and reference groups for *short term graft and patient survival*:

- Mean Donor Age -- 26 years
- Donor Race -- White
- Donor Gender -- male
- Mean Cold Ischemic Time -- 163 minutes
- Previous Heart Transplant -- none
- Mean Recipient Age -- 45 years
- Recipient Race -- non-Black
- Recipient Gender -- male
- Primary Heart Disease -- cardiomyopathy (see Table II-8 for a complete list of disease diagnoses)
- Medical Status -- not in ICU prior to transplant
- On Ventilator at Transplant -- no
- On VAD at Transplant -- no
- On IABP at Transplant -- no
- Year of Transplant -- 1988-1992



Table II-7. National Donor and Recipient Characteristics in Heart Transplants: Percentages by Era and Overall.

		ERA 1	ERA 2	OVERALL
		1/88-4/92	5/92-4/94	1/88-4/94
<u>Risk Factor by Category</u>		<u>N=8192</u>	<u>N=4435</u>	<u>N=12627</u>
<b>Donor Age (years)</b>	0-5	6.2	6.7	6.3
	6-10	1.9	2.6	2.2
	11-17	15.1	17.9	16.1
	18-49	73.2	66.0	70.7
	50-64	3.6	6.5	4.7
	65+	0.0	0.2	0.1
<b>Donor Gender</b>	Female	29.0	30.5	29.5
	Male	71.0	69.5	70.5
<b>Donor Race</b>	White	81.1	76.5	79.5
	Black	9.1	11.7	10.0
	Hispanic	8.4	10.2	9.1
	Asian	0.7	0.8	0.7
	Other	0.7	0.7	0.7
	Not Reported	0.0	0.1	0.1
<b>Recipient Age (years)</b>	<1	4.4	4.3	4.3
	1-10	3.1	4.1	3.4
	11-17	2.8	2.9	2.8
	18-49	37.2	32.6	35.6
	50-64	49.8	51.8	50.5
	65+	2.8	4.3	3.3
<b>Recipient Gender</b>	Female	21.5	22.6	21.9
	Male	78.5	77.4	78.1
<b>Recipient Race</b>	White	84.3	81.1	83.2
	Black	8.9	10.7	9.6
	Hispanic	4.3	5.0	4.5
	Asian	0.7	1.4	1.0
	Other	1.7	1.7	1.7
	Not Reported	0.0	0.0	0.0
<b>Previous Heart Transplant</b>	No	97.2	96.2	96.9
	Yes	2.8	2.7	2.7
	Not Reported	0.0	1.1	0.4

		ERA 1	ERA 2	OVERALL
<b>On Ventilator at Transplant</b>	No	94.3	93.9	94.2
	Yes	5.3	5.2	5.3
	Not Reported	0.4	0.9	0.6
<b>On VAD at Transplant</b>	No	97.3	95.0	96.5
	Yes	2.2	4.1	2.9
	Not Reported	0.4	0.9	0.6
<b>On IABP at Transplant</b>	No	92.8	93.5	93.1
	Yes	6.8	5.6	6.3
	Not Reported	0.4	0.9	0.6
<b>Diagnosis at Transplant</b>	Coronary Artery Disease	43.3	37.7	41.4
	Cardiomyopathy	43.8	49.4	45.8
	Eisenmenger's Syndrome/Congenital	7.1	8.0	7.4
	Valvular Heart Disease	4.2	3.0	3.8
	Other Diagnosis	1.3	1.6	1.4
	Not Reported	0.3	0.2	0.3
<b>Medical Condition at Transplant</b>	In ICU	45.2	52.2	47.7
	Hospitalized	8.8	6.0	7.8
	Not Hospitalized	45.9	41.6	44.4
	Not Reported	0.1	0.2	0.1
<b>Cold Ischemic Time</b>	Up to 2 hrs	29.6	23.2	27.4
	> 2 - 2.5 hrs	18.3	17.4	18.0
	> 2.5 - 3 hrs	18.2	20.7	19.1
	> 3 - 3.5 hrs	14.8	16.5	15.4
	> 3.5 hrs	18.1	21.9	19.4
	Not Reported	0.9	0.2	0.7
<b>Year of Transplant</b>	1988	20.1	0.0	13.1
	1989	20.5	0.0	13.3
	1990	25.3	0.0	16.4
	1991	25.6	0.0	16.6
	1992	8.5	32.6	17.0
	1993	0.0	51.1	17.9
	1994	0.0	16.3	5.7

The relative impact of each donor and recipient characteristic on short term graft and patient survival outcomes is listed in Table II-9. For each characteristic, the *odds ratio* is the odds of patient death (graft failure) as compared to the reference group, after adjusting for the effects of all other donor and recipient characteristics. An *odds ratio of less than 1* indicates that the characteristic was associated with a *reduced odds* of patient death or graft failure relative to the reference group. An odds ratio of *greater than 1* indicates that the characteristic was associated with an *increased odds* of death relative to the reference group. The corresponding p-value measures how significant the odds ratio is. A p-value less than 0.05 indicates statistical significance and means that there is less than a 5% probability that such difference is due to chance alone. The smaller the p-value, the greater the statistical significance and the less likely the difference is due to chance alone.

### Examples

In Table II-9, the odds ratio of graft failure within 1 month, if the recipient was in the ICU at time of transplant, was 1.31. This means that, after adjusting for all of the other donor and recipient characteristics, the odds of graft failure within 1 month was 31% greater for recipients in the ICU than for those hospitalized or at home at time of transplant  $((1.31 - 1) \times 100\% = 31\%)$ . As another example, the odds ratio of graft failure within 1 month post-transplant for a recipient who had a previous transplant versus a recipient who received a first transplant was 2.39. After adjusting for the effects of both donor and recipient characteristics, the odds of graft failure within 1 month for a patient who had a previous transplant was 139% higher  $((2.39 - 1) \times 100\% = 139\%)$  than that for a patient who received a first transplant.

The estimated odds ratios for continuous variables (i.e., variables with many possible values) such as cold ischemic time and donor and recipient ages, are less easily interpreted. For these variables, the estimated odds is determined for every 10 or 15 unit increase or decrease from the mean (reference group) of the variable. For example, in Table II-9, the estimated odds of 1 month graft failure for 178 minutes of cold ischemic time compared to the mean of 163 minutes is 1.03. This means that, after adjusting for the effects of all other characteristics, the odds of graft failure was estimated to increase by 3% for the first 15 minute increase from the mean

**Table II-8. Heart Primary Disease Diagnoses at Time of Transplant**

Coronary Artery Disease
Valvular Heart Disease
Congenital Heart Disease
Cardiomyopathy
-Dilated
- Idiopathic, Adriamycin, Post Partum, Familial, Myocarditis, Alcoholic, Viral, Ischemic, Other
- Restrictive
- Idiopathic, Amyloidosis, Endocardial Fibrosis, Sarcoidosis
- Hypertrophic
Other
-Retransplant due to:
- Hyperacute Rejection, Acute Rejection, Coronary Artery Disease, non-Specific, Restrictive/Constrictive
-Eisenmenger's syndrome: Ventricular Septal Defect
-Primary Pulmonary Hypertension
-Cystic Fibrosis
-Other

cold ischemic time.

An increase of 1 hour (60 minutes) from the mean cold time (i.e., the cold ischemic time is 163 min+60 min=223 min) would result in an 12% increase in the odds of graft failure at 1 month.

Mathematically, this 12% was calculated as follows:

$$\text{Odds ratio} = \exp^{\left(\frac{60}{15} \times 0.0296\right)} = 1.12$$

where 60 is the amount of increase in minutes and 15 minutes is the per unit of increase; 0.0296 corresponds to the coefficient of cold ischemic time per 15 minute difference (see Table II-12 for coefficients). Therefore, the increase in the odds of death or graft failure is  $(1.12 - 1) \times 100\% = 12\%$ . For some variables such as recipient age index, it is necessary to add a quadratic term. For more details on calculating odds ratios for continuous variables, refer to the section on *Odds Ratios* in the *Technical Methods* chapter of the *Executive Summary*.

**Table II-9. Impact of Donor and Recipient Characteristics on Short Term Graft and Patient Survival--Heart Transplants**

Short Term Risk Characteristics	Graft Survival				Patient Survival			
	1 Month		1 Year		1 Month		1 Year	
	Odds Ratio	P-value	Odds Ratio	P-value	Odds Ratio	P-value	Odds Ratio	P-value
Donor Age 36 vs 26 <sup>1</sup>	1.169	<0.001	1.140	<0.001	1.167	<0.001	1.142	<0.001
Donor Black vs White	0.882	0.276	1.149	0.074	0.885	0.306	1.154	0.073
Donor Hispanic vs White	1.141	0.234	1.276	0.002	1.169	0.170	1.272	0.003
Donor Asian, Other vs White	0.837	0.529	1.463	0.034	0.855	0.593	1.483	0.032
Donor Female vs Male	1.264	0.001	1.171	0.003	1.232	0.005	1.154	0.008
Cold Ischemic Time - 178 min vs 163 min <sup>1</sup>	1.030	<0.001	1.022	<0.001	1.029	<0.001	1.021	<0.001
Recipient Age 55 vs 45 <sup>1</sup>	1.118	<0.001	1.151	<0.001	1.138	<0.001	1.171	<0.001
Recipient Age ≤1	0.670	0.065	0.945	0.743	0.700	0.111	0.958	0.811
Recipient Female vs Male	1.283	0.002	1.099	0.108	1.289	0.002	1.095	0.135
Recipient in ICU vs at Home or Hospitalized	1.315	<0.001	1.130	0.017	1.313	<0.001	1.132	0.018
Recipient Black vs not Black	0.938	0.587	1.310	<0.001	0.998	0.987	1.336	<0.001
Previous Heart Transplant: Yes vs No	2.397	<0.001	3.312	<0.001	2.352	<0.001	3.368	<0.001
On Ventilator at Transplant: Yes vs No	2.402	<0.001	1.999	<0.001	2.404	<0.001	2.034	<0.001
On VAD at Transplant: Yes vs No	1.758	<0.001	1.328	0.031	1.612	0.006	1.300	0.059
On IABP at Transplant: Yes vs No	1.346	0.013	1.179	0.084	1.338	0.020	1.166	0.118
Coronary Heart Disease vs Cardiomyopathy	1.168	0.051	1.078	0.173	1.181	0.043	1.081	0.170
Congenital Diagnosis vs Cardiomyopathy	2.012	<0.001	1.339	0.019	1.928	<0.001	1.364	0.016
Valvular Heart Disease vs Cardiomyopathy	1.504	0.012	1.207	0.126	1.498	0.017	1.235	0.092
Other Heart Disease <sup>2</sup> vs Cardiomyopathy	1.714	0.021	1.154	0.449	1.490	0.121	1.098	0.639
Transplant year 1993-1994 vs 1988-1992	0.895	0.156	0.868	0.013	0.888	0.143	0.875	0.022

Notes:

<sup>1</sup> Odds ratios for continuous covariates (donor age, recipient age and cold ischemic time) do not have a linear relationship. The odds ratios presented in this table are 10 years (donor and recipient age) or 15 minutes (cold ischemic time) unit increases from the mean of each covariate. The mean donor age was 26. The mean recipient age was 45. The mean cold ischemic times was 163 minutes.

<sup>2</sup> See Table II-8 for a listing of Other heart diagnoses.

### Short Term Graft and Patient Survival

The characteristics with the strongest impact on short term graft and patient survival were, having a previous heart transplant, being on a ventilator or VAD at time of transplant, and having a congenital diagnosis. The odds of 1 year graft failure was 231% higher if the transplant was a repeat transplant. If a ventilator was used at time of transplant, then the odds of 1 year mortality was 103% higher than if a ventilator was not being used at time of transplant.

### **G. LONG TERM SURVIVAL -- IMPACT OF DONOR AND RECIPIENT CHARACTERISTICS**

In this report, *long term* survival analyses were developed separately from the short term survival analyses. Because this narrative focuses on conditional 3 year survival (survival at 3 years for grafts or patients surviving at least 1 year post-transplant), only conditional 3 year survival data are presented in this text. Both conditional and unconditional 3 year survival rates are provided in the tables for each transplant program.

The conditional 3 year survival analyses assesses

donor and recipient characteristics that are independent of those limited to the first year (e.g., surgical complications). The impact of each donor and recipient characteristic on graft and patient long term survival is listed in Table II-10. The following characteristics and reference groups were used for *long term graft and patient* survival:

- Mean Donor Age -- 26 years
- Donor Race -- White, Black
- Previous Heart Transplant -- no
- Mean Recipient Age -- 45 years
- Recipient Race -- White

### Graft and Patient Survival

The characteristics with the strongest impact on long term graft and patient survival were, having a previous heart transplant, donor race and recipient race. The odds of conditional 3 year patient death was 111% higher if the transplant was a repeat transplant. Blacks, Hispanics and recipients of other Races had worse long term graft and patient survival than did White recipients. Recipients of hearts from Hispanic donors had at 54% higher odds of graft failure than did recipients of hearts from White or Black donors.

**Table II-10. Impact of Donor and Recipient Characteristics on Long Term Graft and Patient Survival -- Heart Transplants**

Long Term Risk Characteristics	Graft		Patient	
	Odds Ratio	P-value	Odds Ratio	P-value
Donor Age 36 vs 26 <sup>1</sup>	1.144	<0.001	1.126	0.003
Donor Hispanic vs White, Black	1.544	0.001	1.515	0.003
Donor Asian, Other vs White, Black	1.622	0.116	1.734	0.074
Recipient Age 55 vs 45 <sup>1</sup>	1.021	0.640	1.041	0.387
Previous Heart Transplant: Yes vs No	1.956	0.005	2.113	0.007
Recipient Black vs White	1.691	<0.001	1.725	<0.001
Recipient Hispanic vs White	1.491	0.030	1.522	0.025
Recipient Asian, Other vs White	1.654	0.025	1.561	0.060

Notes:

<sup>1</sup> Odds ratios for continuous covariates (donor age, recipient age) do not have a linear relationship. The odds ratios presented in this table are 10 unit increases from the mean of each covariate. The mean donor age was 26 and mean recipient age was 45.



## H. COMPARISON BETWEEN SHORT TERM AND LONG TERM CHARACTERISTICS

The majority of the donor and recipient characteristics that had a strong impact on short term graft survival did not appear to have a strong impact on long term graft survival. Some exceptions were donor and recipient race and age and if it was a first or repeat transplant.

Medical condition at transplant and diagnosis had a strong impact for short term survival, but were not significant predictors for long term survival.

## I. STATISTICAL METHODS AND MODELS

*This section provides a brief summary of the statistical methods used to determine survival rates for heart transplants, both nationally and at each transplant program. It is not necessary to read this section in order to utilize the rest of the report. For additional statistical details, please see the Technical Methods chapter in the Executive Summary.*

## Model Significance -- $R^2$

The conclusion that there is a “center effect” in heart transplantation often is based on the observation that actual survival rates vary considerably among heart transplant programs. However, in reality, only part of the variability can be attributed to the quality of the program (the so called “center effect”); the rest can be attributed to the differences in donor and recipient characteristics among transplant programs. The degree to which the variability in actual survival rates can be attributed to the specific donor and recipient characteristics in each analysis appears in Table II-11.

In the table, the values in the column labeled  $R^2$  estimate the percentage of variability in the actual survival rates that can be attributed to the covariates in each analysis. *The higher the percentage, the better the analysis explained the individual program outcomes, based on the characteristics examined.* Theoretically, if an analysis contained every covariate that affected survival outcomes, and there were no differences in quality among programs (i.e., no “center effect”), then  $R^2$  would equal 100%. In

Table II-11. Heart Model  $R^2$ : Comparison of the 1994 and 1997 Reports

Outcome	Time Point	Report Year	Number of Covariates	$R^2$
Graft Model $R^2$	1 Month	1997	22	26
		1994	15	19
	1 Year	1997	22	36
		1994	15	29
	Cond. 3 Year*	1997	8	8
		1994	NA	NA
Patient Model $R^2$	1 Month	1997	22	25
		1994	15	18
	1 Year	1997	22	36
		1994	15	33
	Cond. 3 Year*	1997	8	9
		1994	NA	NA

\* Conditional 3 year analysis was not performed in the 1994 report.

practice, we can never capture every factor that affects outcomes, and it is likely that real differences among programs do exist. This means that any unexplained variation can probably be attributed to a combination of true center effect and covariates not considered in this study. (For details on the  $R^2$  calculation, refer to the *Model Significance* section in the *Technical Methods* chapter of the *Executive Summary*.)

The value of  $R^2$  estimated from analyses in the 1994 Report was compared to the value of the  $R^2$  analyses in the 1997 Report. Note that these analyses are not *directly* comparable since each was used with a different cohort of transplants. Nevertheless, the extensive characteristics considered in the 1997 Report appear to explain more of the variability in the actual survival rates. Despite the refinements in the 1997 Report, as compared to the 1994 Report, much of the variation in actual survival rates among the 161 transplant programs in the study remains unexplained by the analyses. This suggests that much of the risk involved in transplantation is due to characteristics not described in this report

#### Estimated Coefficients and Standard Errors from the Logistic Regression Models

Tables II-12 and II-13 list the coefficients and the standard errors of the coefficients at each time point for all of the donor and recipient characteristics used in the logistic regression models. Each coefficient is reported on the logistic scale and represents the log<sub>e</sub> odds of graft failure or the log<sub>e</sub> odds of patient mortality for the corresponding characteristic at the specified time after transplant. The adjusted odds ratio on the probability scale may be obtained by applying the exponential function to the coefficient. For further details, see the *Odds Ratios* section in the *Technical Methods* chapter of the *Executive Summary*.

#### Expected Heart Transplant Survival Rates

Table II-14 shows the 1 year *expected graft* survival rates for heart transplants for a given set of donor and recipient characteristics; Table II-15 shows the 1 year *expected patient* survival rates. These rates were determined using the following characteristics: recipient age, diagnosis, gender and primary or repeat transplant. For these analyses, all other characteristics were set to the values for the reference

groups, with the exception of the year of transplant. The complete list of reference groups is shown on page 16.

For example, in Table II-14, the expected 1 year graft survival for a 40 year old male recipient of a first cadaveric heart transplant with coronary heart disease was 90%. In contrast, the expected 1 year graft survival for a female heart recipient of the same age and disease was 89%.

## J. SUMMARY

### Study Period

The 1997 Report was based on 12,627 heart transplants performed in 12,428 patients between January 1, 1988, and April 30, 1994, from 161 transplant programs in the United States. In order to assess changes within transplant programs over time, the data were divided into 2 eras. The first era included transplants performed from January 1, 1988, through April 30, 1992; the second era covered the two year time period from May 1, 1992, through April 30, 1994.

### Survival Rates

Survival rates were computed at 1 month, 1 year, and 3 years, both nationally and for each transplant program. Three year survival was determined in two ways: (1) conditional 3 year survival (i.e., survival at 3 years for those who survived at least 1 year post-transplant), and (2) unconditional 3 year survival. The emphasis on long term survival in this chapter is on the conditional 3-year survival rates because the conditional 3-year analysis provides an assessment of characteristics independent of those limited to the first year (e.g., surgical complications and early acute rejection events).

The national graft and patient survival rates and completeness of follow-up at 1 month, 1 year, and conditional 3 years are shown in Tables II-1 and II-2. The percent of programs with graft and patient follow-up data at 1 year was more than 98%; at conditional 3 years the percent of programs with follow-up data was also 98%.

There was a marked increase in the number of heart transplants from Era 1 to Era 2. As demonstrated in

Table II-12. Model Coefficients and Standard Errors for Donor and Recipient Characteristics in Short Term Heart Transplant Survival

Short Term Risk Characteristics	Graft				Patient			
	1 Month		1 Year		1 Month		1 Year	
	Model Coeff.	Std. Error	Model Coeff.	Std. Error	Model Coeff.	Std. Error	Model Coeff.	Std. Error
Intercept	-3.2272	0.087	-2.0973	0.060	-3.2949	0.091	-2.1587	0.061
Donor Age - Linear (per 10 years) <sup>1,2</sup>	0.0868	0.038	0.0848	0.027	0.0894	0.040	0.0830	0.028
Donor Age - Quadratic (per 10 years) <sup>1,2</sup>	0.0693	0.020	0.0478	0.015	0.0653	0.020	0.0494	0.015
Donor Black vs White	-0.1258	0.115	0.1393	0.078	-0.1220	0.119	0.1432	0.080
Donor Hispanic vs White	0.1320	0.111	0.2436	0.079	0.1562	0.114	0.2404	0.081
Donor Asian, Other vs White	-0.1775	0.282	0.3808	0.179	-0.1569	0.294	0.3942	0.184
Donor Female vs Male	0.2346	0.071	0.1581	0.052	0.2084	0.074	0.1432	0.054
Cold Ischemic Time (per 15 min) <sup>1,2</sup>	0.0296	0.007	0.0217	0.006	0.0288	0.008	0.0204	0.006
Recipient Age - Linear (per 10 years) <sup>1,2</sup>	0.1116	0.032	0.1404	0.023	0.1296	0.033	0.1577	0.023
Recipient Age-Quadratic(per 10 years) <sup>1,2</sup>	0.0453	0.014	0.0530	0.010	0.0538	0.015	0.0557	0.011
Recipient Age <=1	-0.4000	0.217	-0.0567	0.173	-0.3563	0.224	-0.0426	0.178
Recipient Female vs Male	0.2493	0.079	0.0948	0.059	0.2539	0.082	0.0906	0.061
Recipient in ICU vs at Home or Hospitalized	0.2740	0.073	0.1219	0.051	0.2724	0.075	0.1240	0.052
Recipient Black vs Not Black	-0.0644	0.118	0.2703	0.079	-0.0098	0.121	0.2897	0.081
Previous Heart Transplant: Yes vs No	0.8741	0.147	1.1976	0.117	0.8553	0.183	1.2143	0.140
On Ventilator at Transplant: Yes vs No	0.8762	0.116	0.6924	0.098	0.8770	0.121	0.7099	0.102
On VAD at Transplant: Yes vs No	0.5641	0.158	0.2838	0.132	0.4773	0.172	0.2621	0.139
On IABP at Transplant: Yes vs No	0.2970	0.120	0.1644	0.095	0.2909	0.125	0.1534	0.098
Coronary Heart Disease vs Cardiomyopathy	0.1552	0.079	0.0755	0.055	0.1661	0.082	0.0778	0.057
Congenital Heart Disease vs Cardiomyopathy	0.6991	0.159	0.2919	0.124	0.6566	0.166	0.3104	0.129
Valvular Heart Disease vs Cardiomyopathy	0.4078	0.163	0.1878	0.123	0.4038	0.169	0.2111	0.125
Other Heart Disease vs Cardiomyopathy	0.5388	0.234	0.1430	0.189	0.3991	0.257	0.0931	0.199
Transplant year 1993-1994 vs 1988-1992	-0.1113	0.078	-0.1411	0.057	-0.1188	0.081	-0.1335	0.058

Notes:

<sup>1</sup> In the analysis, the continuous covariates (donor and recipient age, cold ischemic time) were centered at their mean. The mean donor age was 26. The mean cold ischemic time was 163 minutes. The mean donor age was 45.

<sup>2</sup> Modeling the continuous covariates with a liner and quadratic term (the square of the linear term) is necessary due to the relationship between the covariate and the odds of graft failure or death.



Table II-13. Model Coefficients and Standard Errors for Donor and Recipient Characteristics in Long Term Heart Transplant Survival

Long Term Characteristics	Graft		Patient	
	Model Coeff.	Std. Error	Model Coeff.	Std. Error
Intercept	-2.4229	0.063	-2.4838	0.065
Donor Age (per 10 years) <sup>1,2</sup>	0.1348	0.038	0.1185	0.034
Donor Hispanic vs White, Black	0.4341	0.134	0.4155	0.138
Donor Asian, Other vs White, Black	0.4839	0.308	0.5505	0.308
Recipient Age - Linear (per 10 years) <sup>1,2</sup>	-0.0018	0.038	0.0143	0.039
Recipient Age - Quadratic (per 10 years) <sup>1,2</sup>	0.0229	0.014	0.0256	0.014
Previous Heart Transplant: Yes vs No	0.6711	0.241	0.7483	0.277
Recipient Black vs White	0.5251	0.130	0.5455	0.132
Recipient Hispanic vs White	0.3997	0.184	0.4200	0.188
Recipient Asian, Other vs White	0.5031	0.224	0.4453	0.236

Notes:

<sup>1</sup> In the analysis, the continuous covariates (donor and recipient age, cold ischemic time) were centered at their mean. The mean donor age was 26. The mean cold ischemic time was 163 minutes. The mean donor age was 45.

<sup>2</sup> Modeling the continuous covariates with a liner and quadratic term (the square of the linear term) is necessary due to the relationship between the covariate and the odds of graft failure or death.

Table II-16, the number of heart transplants increased by 17% from an average of 157 transplants per month in Era 1 to 185 transplants per month in Era 2.

For the majority of transplant programs, the difference between actual and expected survival rates was not statistically significant (See Figures II-1 and II-3). In general, large differences (either higher or lower) were nearly always found among programs that reported relatively few transplants (see Figure II-2). Therefore, when evaluating survival rates for a program, it is also important to consider the number of transplants performed there.

#### Differences Between Short Term and Long Term Characteristics

The 1997 Report includes an extensive list of characteristics that have a significant impact on both short and long term graft and patient survival.

Characteristics with the strongest impact on *short term survival* were:

- Recipient had a previous heart transplant
- Recipient was on a ventilator
- Recipient had a congenital heart diagnosis
- Year of transplant was 1993 or 1994

Characteristics with the strongest impact on *long term survival* were:

- Recipient had a previous heart transplant
- Donor was Hispanic
- Recipient was Black or Hispanic

**Table II-14. Expected U.S. 1 Year Graft Survival Rates -- Heart Transplants Stratified by Recipient Age, Diagnosis, Gender, and Primary or Repeat Transplant**

Age	Diagnosis	Male		Female	
		Primary	Repeat	Primary	Repeat
5	Cardiomyopathy	87.6	68.0	86.5	65.9
	Coronary Heart Disease	86.7	66.3	85.6	64.2
	Congenital Disease	84.0	61.3	82.7	59.1
	Valvular Disease	85.4	63.8	84.1	61.6
	Other Disease	85.9	64.8	84.7	62.6
25	Cardiomyopathy	90.9	75.2	90.1	73.4
	Coronary Heart Disease	90.3	73.8	89.4	71.9
	Congenital Disease	88.2	69.4	87.2	67.3
	Valvular Disease	89.3	71.5	88.3	69.6
	Other Disease	89.7	72.4	88.8	70.5
40	Cardiomyopathy	90.8	75.0	90.0	73.2
	Coronary Heart Disease	90.2	73.5	89.3	71.7
	Congenital Disease	88.1	69.1	87.1	67.1
	Valvular Disease	89.2	71.3	88.2	69.3
	Other Disease	89.6	72.2	88.7	70.3
50	Cardiomyopathy	89.6	72.3	88.7	70.3
	Coronary Heart Disease	88.9	70.7	87.9	68.7
	Congenital Disease	86.6	66.0	85.4	63.9
	Valvular Disease	87.7	68.3	86.7	66.3
	Other Disease	88.2	69.3	87.2	67.3
60	Cardiomyopathy	87.1	67.1	86.0	64.9
	Coronary Heart Disease	86.2	65.4	85.0	63.2
	Congenital Disease	83.4	60.3	82.1	58.0
	Valvular Disease	84.8	62.8	83.6	60.5
	Other Disease	85.4	63.8	84.2	61.6

**Table V-15. Expected U.S. 1 Year Patient Survival Rates -- Heart Transplants Stratified by Recipient Age, Diagnosis, Gender, and Primary or Repeat Transplant**

Age	Diagnosis	Male		Female	
		Primary	Repeat	Primary	Repeat
5	Cardiomyopathy	88.4	69.4	87.5	67.4
	Coronary Heart Disease	87.6	67.7	86.6	65.7
	Congenital Disease	84.8	62.4	83.6	60.3
	Valvular Disease	86.1	64.7	84.9	62.6
	Other Disease	87.4	67.4	86.4	65.3
25	Cardiomyopathy	91.6	76.3	90.8	74.6
	Coronary Heart Disease	90.9	74.9	90.2	73.1
	Congenital Disease	88.8	70.3	87.9	68.3
	Valvular Disease	89.8	72.3	88.9	70.5
	Other Disease	90.8	74.6	90.0	72.8
40	Cardiomyopathy	91.3	75.8	90.6	74.1
	Coronary Heart Disease	90.7	74.4	89.9	72.6
	Congenital Disease	88.6	69.7	87.6	67.7
	Valvular Disease	89.5	71.7	88.6	69.9
	Other Disease	90.6	74.1	89.8	72.3
50	Cardiomyopathy	90.0	72.8	89.2	71.0
	Coronary Heart Disease	89.3	71.2	88.4	69.4
	Congenital Disease	86.9	66.3	85.8	64.2
	Valvular Disease	88.0	68.4	87.0	66.4
	Other Disease	89.2	70.9	88.2	69.0
60	Cardiomyopathy	87.3	67.2	86.3	65.1
	Coronary Heart Disease	86.4	65.4	85.3	63.4
	Congenital Disease	83.5	60.0	82.2	57.8
	Valvular Disease	84.8	62.4	83.6	60.2
	Other Disease	86.3	65.1	85.2	63.0

Table II-16. Comparison of 1 Month and 1 Year Actual Survival Rates Between Eras

	1 Month		1 Year	
	Era 1	Era 2	Era 1	Era 2
Graft Survival (%)	91.6%	91.5%	81.5%	81.9%
Average No. of Transplants/Month	157	185	158	185
Patient Survival (%)	92.1%	92.0%	82.4%	82.8%
Average No. of Patients/Month	155	183	155	184

**K. FINAL WORDS**

The purpose of this report is to provide updated information on survival outcomes both nationally and at specific transplant programs, and to enhance the awareness of program performance in the U.S. However, the assessment of a transplant program should not be based solely on the survival rates provided in this report. Some of the other important factors to consider are the experience of the transplant team, support personnel, the cost of the procedure, and the quality and location of post-transplant services.

## Index of Heart Transplant Programs

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### **III. PROGRAM SPECIFIC DATA**





## Heart Transplants: January 1, 1988 - April 30, 1994

Survival Report for University of Alabama Hospital - Birmingham AL  
Provider Number 010033 (ALUA)Graft Survival

	Era 1: 1/1/88-4/30/92			Era 2: 5/1/92-4/30/94			Overall: 1/1/88-4/30/94						
Time Point	No. of TX	Act. Rate (%)	Exp. Rate (%)	No. of TX	Act. Rate (%)	Exp. Rate (%)	No. of TX	No. <sup>1</sup> w/CFU	No. Failed	Act. Rate (%)	Exp. Rate (%)	Diff. (%)	p- <sup>2</sup> value
1 Month	115	92.2	91.4	78	96.2	91.6	193	193	12	93.8	91.5	2.3	0.23
1 Year	115	79.1	80.8	78	80.8	80.5	193	193	39	79.8	80.7	-0.9	0.74
Cond. <sup>3</sup> 3 Years	91	90.1	91.0				91	91	9	90.1	91.0	-0.9	0.76
3 Years <sup>3</sup>		71.3	73.6										

Patient Survival

	Era 1: 1/1/88-4/30/92			Era 2: 5/1/92-4/30/94			Overall: 1/1/88-4/30/94						
Time Point	No. of Pts. <sup>4</sup>	Act. Rate (%)	Exp. Rate (%)	No. of Pts. <sup>4</sup>	Act. Rate (%)	Exp. Rate (%)	No. of Pts. <sup>4</sup>	No. <sup>1,5</sup> w/CFU	No. <sup>5</sup> Died	Act. Rate (%)	Exp. Rate (%)	Diff. (%)	p- <sup>2</sup> value
1 Month	110	92.6	91.9	73	97.2	92.4	180	180.0	10.0	94.4	92.1	2.3	0.23
1 Year	110	81.6	82.1	73	83.9	82.2	180	180.0	31.5	82.5	82.1	0.4	0.89
Cond. <sup>3</sup> 3 Years	90	93.3	91.4				90	90.0	6.0	93.3	91.4	2.0	0.50
3 Years <sup>3</sup>		76.1	75.0										

Notes: <sup>1</sup> No. with complete follow-up (CFU) is the total of the number of patients (grafts) whose status was known during the specified time interval.

<sup>2</sup> A p-value followed by an \* indicates that the difference is statistically significant at the 0.05 level.

<sup>3</sup> Conditional 3 year survival rates are the survival rates conditional on survival at 1 year. These are computed based on transplants between 1/1/88 and 4/30/92. Three year survival rates are computed by multiplying the 1 year and the conditional 3 year survival rates.

<sup>4</sup> The numbers of patients in Era 1 and Era 2 do not necessarily add up to the number of patients in the overall period, due to repeat transplants in different eras for some patients.

<sup>5</sup> No. w/CFU or No. Died may be fractional if patients received more than one transplant at the program.

Source: UNOS OPTN/Scientific Registry data.

**Heart Transplants: January 1, 1988 - April 30, 1994**  
**Donor and Recipient Characteristics: Program and National Frequencies**

**University of Alabama Hospital - Birmingham AL**  
**Provider Number 010033 (ALUA)**

		----- Program -----		--- National ---	
		Number	%	Number	%
<b>Total Transplants and Percentages</b>		<b>193</b>	<b>100.0</b>	<b>12627</b>	<b>100.0</b>
<b>Donor Age</b>	0-5	14	7.3	799	6.3
	6-10	2	1.0	274	2.2
	11-17	34	17.6	2029	16.1
	18-49	143	74.1	8923	70.7
	50-64	0	0.0	589	4.7
	65+	0	0.0	12	0.1
	Not Reported	0	0.0	1	0.0
<b>Donor Gender</b>	Female	45	23.3	3728	29.5
	Male	148	76.7	8899	70.5
<b>Donor Race</b>	White	151	78.2	10036	79.5
	Black	40	20.7	1263	10.0
	Hispanic	2	1.0	1143	9.1
	Asian	0	0.0	90	0.7
	Other	0	0.0	87	0.7
	Not Reported	0	0.0	8	0.1
<b>Recipient Age</b>	<1	8	4.1	549	4.3
	1-10	11	5.7	431	3.4
	11-17	8	4.1	358	2.8
	18-49	52	26.9	4493	35.6
	50-64	111	57.5	6373	50.5
	65+	3	1.6	423	3.3
<b>Recipient Gender</b>	Female	45	23.3	2761	21.9
	Male	148	76.7	9866	78.1
<b>Recipient Race</b>	White	164	85.0	10504	83.2
	Black	25	13.0	1206	9.6
	Hispanic	2	1.0	570	4.5
	Asian	0	0.0	125	1.0
	Other	2	1.0	216	1.7
	Not Reported	0	0.0	6	0.0

		----- Program -----		--- National ---	
		Number	%	Number	%
Previous Heart Transplant	No	173	89.6	12231	96.9
	Yes	19	9.8	344	2.7
	Not Reported	1	0.5	52	0.4
On Ventilator at Transplant	No	186	96.4	11892	94.2
	Yes	7	3.6	663	5.3
	Not Reported	0	0.0	72	0.6
On VAD at Transplant	No	184	95.3	12187	96.5
	Yes	9	4.7	366	2.9
	Not Reported	0	0.0	74	0.6
On IABP at Transplant	No	176	91.2	11754	93.1
	Yes	17	8.8	801	6.3
	Not Reported	0	0.0	72	0.6
Diagnosis at Transplant	Coronary Artery Disease	112	58.0	5222	41.4
	Cardiomyopathy	61	31.6	5779	45.8
	Eisenmenger's Syndrome Congenital	17	8.8	933	7.4
	Valvular Heart Disease	2	1.0	476	3.8
	Other Diagnosis	1	0.5	183	1.4
	Not Reported	0	0.0	34	0.3
Medical Condition at Transplant	Not Hospitalized	89	46.1	5606	44.4
	Hospitalized	23	11.9	986	7.8
	In ICU	81	42.0	6019	47.7
	Not Reported	0	0.0	16	0.1
Cold Ischemia Time	Up to 2 hrs	33	17.1	3458	27.4
	> 2 - 2.5 hrs	31	16.1	2271	18.0
	> 2.5 - 3 hrs	33	17.1	2408	19.1
	> 3 - 3.5 hrs	32	16.6	1949	15.4
	> 3.5 hrs	63	32.6	2453	19.4
	Not Reported	1	0.5	88	0.7
Year of Transplant	1988	21	10.9	1649	13.1
	1989	20	10.4	1677	13.3
	1990	35	18.1	2071	16.4
	1991	31	16.1	2098	16.6
	1992	28	14.5	2145	17.0
	1993	42	21.8	2266	17.9
	1994	16	8.3	721	5.7

Source: UNOS OPTN Scientific Registry data.

## Heart Transplants: January 1, 1988 - April 30, 1994

Survival Report for Baptist Medical Center - Little Rock AR  
Provider Number 040114 (ARBH)Graft Survival

	Era 1: 1/1/88-4/30/92			Era 2: 5/1/92-4/30/94			Overall: 1/1/88-4/30/94						
Time Point	No. of TX	Act. Rate (%)	Exp. Rate (%)	No. of TX	Act. Rate (%)	Exp. Rate (%)	No. of TX	No. <sup>1</sup> w/CFU	No. Failed	Act. Rate (%)	Exp. Rate (%)	Diff. (%)	p- <sup>2</sup> value
1 Month	20	90.0	92.0	17	100.0	94.4	37	37	2	94.6	93.1	1.5	0.71
1 Year	20	75.0	81.9	17	94.1	85.2	37	37	6	83.8	83.4	0.4	0.95
Cond. <sup>3</sup> 3 Years	15	93.3	89.8				15	15	1	93.3	89.8	3.5	0.65
3 Years <sup>3</sup>		70.0	73.6										

Patient Survival

	Era 1: 1/1/88-4/30/92			Era 2: 5/1/92-4/30/94			Overall: 1/1/88-4/30/94						
Time Point	No. of Pts. <sup>4</sup>	Act. Rate (%)	Exp. Rate (%)	No. of Pts. <sup>4</sup>	Act. Rate (%)	Exp. Rate (%)	No. of Pts. <sup>4</sup>	No. <sup>1,5</sup> w/CFU	No. <sup>5</sup> Died	Act. Rate (%)	Exp. Rate (%)	Diff. (%)	p- <sup>2</sup> value
1 Month	19	94.7	93.4	17	100.0	94.7	36	36.0	1.0	97.2	94.0	3.2	0.41
1 Year	19	78.9	83.9	17	94.1	85.8	36	36.0	5.0	86.1	84.8	1.3	0.82
Cond. <sup>3</sup> 3 Years	15	93.3	90.4				15	15.0	1.0	93.3	90.4	3.0	0.69
3 Years <sup>3</sup>		73.7	75.8										

Notes: <sup>1</sup> No. with complete follow-up (CFU) is the total of the number of patients (grafts) whose status was known during the specified time interval.

<sup>2</sup> A p-value followed by an \* indicates that the difference is statistically significant at the 0.05 level.

<sup>3</sup> Conditional 3 year survival rates are the survival rates conditional on survival at 1 year. These are computed based on transplants between 1/1/88 and 4/30/92. Three year survival rates are computed by multiplying the 1 year and the conditional 3 year survival rates.

<sup>4</sup> The numbers of patients in Era 1 and Era 2 do not necessarily add up to the number of patients in the overall period, due to repeat transplants in different eras for some patients.

<sup>5</sup> No. w/CFU or No. Died may be fractional if patients received more than one transplant at the program.

Source: UNOS OPTN/Scientific Registry data.

**Heart Transplants: January 1, 1988 - April 30, 1994**  
**Donor and Recipient Characteristics: Program and National Frequencies**

**Baptist Medical Center - Little Rock AR**  
**Provider Number 040114 (ARBH)**

		----- Program -----		--- National ---	
		Number	%	Number	%
<b>Total Transplants and Percentages</b>		<b>37</b>	<b>100.0</b>	<b>12627</b>	<b>100.0</b>
<b>Donor Age</b>	0-5	0	0.0	799	6.3
	6-10	1	2.7	274	2.2
	11-17	6	16.2	2029	16.1
	18-49	25	67.6	8923	70.7
	50-64	5	13.5	589	4.7
	65+	0	0.0	12	0.1
	Not Reported	0	0.0	1	0.0
<b>Donor Gender</b>	Female	12	32.4	3728	29.5
	Male	25	67.6	8899	70.5
<b>Donor Race</b>	White	30	81.1	10036	79.5
	Black	3	8.1	1263	10.0
	Hispanic	3	8.1	1143	9.1
	Asian	0	0.0	90	0.7
	Other	1	2.7	87	0.7
	Not Reported	0	0.0	8	0.1
<b>Recipient Age</b>	<1	0	0.0	549	4.3
	1-10	0	0.0	431	3.4
	11-17	0	0.0	358	2.8
	18-49	19	51.4	4493	35.6
	50-64	17	45.9	6373	50.5
	65+	1	2.7	423	3.3
<b>Recipient Gender</b>	Female	10	27.0	2761	21.9
	Male	27	73.0	9866	78.1
<b>Recipient Race</b>	White	28	75.7	10504	83.2
	Black	7	18.9	1206	9.6
	Hispanic	0	0.0	570	4.5
	Asian	0	0.0	125	1.0
	Other	2	5.4	216	1.7
	Not Reported	0	0.0	6	0.0



		----- Program -----		--- National ---	
		Number	%	Number	%
<b>Previous Heart Transplant</b>	No	36	97.3	12231	96.9
	Yes	1	2.7	344	2.7
	Not Reported	0	0.0	52	0.4
<b>On Ventilator at Transplant</b>	No	37	100.0	11892	94.2
	Yes	0	0.0	663	5.3
	Not Reported	0	0.0	72	0.6
<b>On VAD at Transplant</b>	No	37	100.0	12187	96.5
	Yes	0	0.0	366	2.9
	Not Reported	0	0.0	74	0.6
<b>On IABP at Transplant</b>	No	34	91.9	11754	93.1
	Yes	3	8.1	801	6.3
	Not Reported	0	0.0	72	0.6
<b>Diagnosis at Transplant</b>	Coronary Artery Disease	11	29.7	5222	41.4
	Cardiomyopathy	26	70.3	5779	45.8
	Eisenmenger's Syndrome/Congenital	0	0.0	933	7.4
	Valvular Heart Disease	0	0.0	476	3.8
	Other Diagnosis	0	0.0	183	1.4
	Not Reported	0	0.0	34	0.3
<b>Medical Condition at Transplant</b>	Not Hospitalized	21	56.8	5606	44.4
	Hospitalized	8	21.6	986	7.8
	In ICU	8	21.6	6019	47.7
	Not Reported	0	0.0	16	0.1
<b>Cold Ischemia Time</b>	Up to 2 hrs	21	56.8	3458	27.4
	> 2 - 2.5 hrs	6	16.2	2271	18.0
	> 2.5 - 3 hrs	6	16.2	2408	19.1
	> 3 - 3.5 hrs	2	5.4	1949	15.4
	> 3.5 hrs	2	5.4	2453	19.4
	Not Reported	0	0.0	88	0.7
<b>Year of Transplant</b>	1988	0	0.0	1649	13.1
	1989	2	5.4	1677	13.3
	1990	6	16.2	2071	16.4
	1991	6	16.2	2098	16.6
	1992	10	27.0	2145	17.0
	1993	13	35.1	2266	17.9
	1994	0	0.0	721	5.7

Source: UNOS OPTN/Scientific Registry data.

**Response From: Baptist Medical Center  
9601 I-630, Exit 7, Little Rock AR 72205  
Provider Number 040114 (ARBH)**

May 12, 1997

The heart transplant program at Baptist Medical Center is pleased that the UNOS survival statistics regarding our program reflect the commitment to quality care for each of our patients. The primary surgeons and cardiologists involved with our transplant program have been actively participating, since the program's inception in 1989.

Baptist's most current Patient Survival Rates are well above the UNOS indicated national expectations. Our 3 month patient survival rate (100%) and 1 year patient survival rate (94.1%) significantly exceed the national expected survival rates as published by UNOS, which are 94.7% and 85.8%, respectively.

Since the most recent published data, Baptist Medical Center has performed 27 more heart transplants. Of this number, only one death has occurred prior to the one year anniversary date of the procedure.

John M. Ransom, M.D.  
Heart Transplant Program Director



## Heart Transplants: January 1, 1988 - April 30, 1994

Survival Report for Arkansas Children's Hospital - Little Rock AR  
Provider Number 040117 (ARCH)Graft Survival

	Era 1: 1/1/88-4/30/92			Era 2: 5/1/92-4/30/94			Overall: 1/1/88-4/30/94						
Time Point	No. of TX	Act. Rate (%)	Exp. Rate (%)	No. of TX	Act. Rate (%)	Exp. Rate (%)	No. of TX	No. <sup>1</sup> w/CFU	No. Failed	Act. Rate (%)	Exp. Rate (%)	Diff. (%)	p- <sup>2</sup> value
1 Month	6	83.3	85.7	21	90.5	83.9	27	27	3	88.9	84.3	4.6	0.49
1 Year	6	50.0	73.0	21	81.0	71.4	27	27	7	74.1	71.8	2.3	0.78
Cond. <sup>3</sup> 3 Years	3	100.0	87.5				3	3	0	100.0	87.5	12.5	0.71
3 Years <sup>3</sup>		50.0	63.8										

Patient Survival

	Era 1: 1/1/88-4/30/92			Era 2: 5/1/92-4/30/94			Overall: 1/1/88-4/30/94						
Time Point	No. of Pts. <sup>4</sup>	Act. Rate (%)	Exp. Rate (%)	No. of Pts. <sup>4</sup>	Act. Rate (%)	Exp. Rate (%)	No. of Pts. <sup>4</sup>	No. <sup>1,5</sup> w/CFU	No. <sup>5</sup> Died	Act. Rate (%)	Exp. Rate (%)	Diff. (%)	p- <sup>2</sup> value
1 Month	6	83.3	86.0	21	90.5	84.4	27	27.0	3.0	88.9	84.7	4.1	0.53
1 Year	6	50.0	74.0	21	81.0	72.4	27	27.0	7.0	74.1	72.8	1.3	0.87
Cond. <sup>3</sup> 3 Years	3	100.0	87.7				3	3.0	0.0	100.0	87.7	12.3	0.72
3 Years <sup>3</sup>		50.0	65.0										

Notes: <sup>1</sup> No. with complete follow-up (CFU) is the total of the number of patients (grafts) whose status was known during the specified time interval.

<sup>2</sup> A p-value followed by an \* indicates that the difference is statistically significant at the 0.05 level.

<sup>3</sup> Conditional 3 year survival rates are the survival rates conditional on survival at 1 year. These are computed based on transplants between 1/1/88 and 4/30/92. Three year survival rates are computed by multiplying the 1 year and the conditional 3 year survival rates.

<sup>4</sup> The numbers of patients in Era 1 and Era 2 do not necessarily add up to the number of patients in the overall period, due to repeat transplants in different eras for some patients.

<sup>5</sup> No. w/CFU or No. Died may be fractional if patients received more than one transplant at the program.

Source: UNOS OPTN/Scientific Registry data.

**Heart Transplants: January 1, 1988 - April 30, 1994**  
**Donor and Recipient Characteristics: Program and National Frequencies**

**Arkansas Children's Hospital - Little Rock AR**  
**Provider Number 040117 (ARCH)**

		----- Program -----		--- National ---	
		Number	%	Number	%
<b>Total Transplants and Percentages</b>		<b>27</b>	<b>100.0</b>	<b>12627</b>	<b>100.0</b>
<b>Donor Age</b>	0-5	18	66.7	799	6.3
	6-10	2	7.4	274	2.2
	11-17	6	22.2	2029	16.1
	18-49	1	3.7	8923	70.7
	50-64	0	0.0	589	4.7
	65+	0	0.0	12	0.1
	Not Reported	0	0.0	1	0.0
<b>Donor Gender</b>	Female	16	59.3	3728	29.5
	Male	11	40.7	8899	70.5
<b>Donor Race</b>	White	16	59.3	10036	79.5
	Black	7	25.9	1263	10.0
	Hispanic	3	11.1	1143	9.1
	Asian	1	3.7	90	0.7
	Other	0	0.0	87	0.7
	Not Reported	0	0.0	8	0.1
<b>Recipient Age</b>	<1	8	29.6	549	4.3
	1-10	14	51.9	431	3.4
	11-17	4	14.8	358	2.8
	18-49	1	3.7	4493	35.6
	50-64	0	0.0	6373	50.5
	65+	0	0.0	423	3.3
<b>Recipient Gender</b>	Female	13	48.1	2761	21.9
	Male	14	51.9	9866	78.1
<b>Recipient Race</b>	White	19	70.4	10504	83.2
	Black	8	29.6	1206	9.6
	Hispanic	0	0.0	570	4.5
	Asian	0	0.0	125	1.0
	Other	0	0.0	216	1.7
	Not Reported	0	0.0	6	0.0

		----- Program -----		--- National ---	
		Number	%	Number	%
<b>Previous Heart Transplant</b>	No	27	100.0	12231	96.9
	Yes	0	0.0	344	2.7
	Not Reported	0	0.0	52	0.4
<b>On Ventilator at Transplant</b>	No	15	55.6	11892	94.2
	Yes	10	37.0	663	5.3
	Not Reported	2	7.4	72	0.6
<b>On VAD at Transplant</b>	No	25	92.6	12187	96.5
	Yes	0	0.0	366	2.9
	Not Reported	2	7.4	74	0.6
<b>On IABP at Transplant</b>	No	25	92.6	11754	93.1
	Yes	0	0.0	801	6.3
	Not Reported	2	7.4	72	0.6
<b>Diagnosis at Transplant</b>	Coronary Artery Disease	0	0.0	5222	41.4
	Cardiomyopathy	13	48.1	5779	45.8
	Eisenmenger's Syndrome/Congenital	13	48.1	933	7.4
	Valvular Heart Disease	0	0.0	476	3.8
	Other Diagnosis	1	3.7	183	1.4
	Not Reported	0	0.0	34	0.3
<b>Medical Condition at Transplant</b>	Not Hospitalized	7	25.9	5606	44.4
	Hospitalized	1	3.7	986	7.8
	In ICU	19	70.4	6019	47.7
	Not Reported	0	0.0	16	0.1
<b>Cold Ischemia Time</b>	Up to 2 hrs	3	11.1	3458	27.4
	> 2 - 2.5 hrs	1	3.7	2271	18.0
	> 2.5 - 3 hrs	2	7.4	2408	19.1
	> 3 - 3.5 hrs	5	18.5	1949	15.4
	> 3.5 hrs	16	59.3	2453	19.4
	Not Reported	0	0.0	88	0.7
<b>Year of Transplant</b>	1988	0	0.0	1649	13.1
	1989	0	0.0	1677	13.3
	1990	2	7.4	2071	16.4
	1991	3	11.1	2098	16.6
	1992	3	11.1	2145	17.0
	1993	17	63.0	2266	17.9
	1994	2	7.4	721	5.7

Source: UNOS OPTN/Scientific Registry data.



## Heart Transplants: January 1, 1988 - April 30, 1994

Survival Report for The University Hospital of Arkansas- Little Rock AR  
Provider Number 040016 (ARUA)Graft Survival

	Era 1: 1/1/88-4/30/92			Era 2: 5/1/92-4/30/94			Overall: 1/1/88-4/30/94						
Time Point	No. of TX	Act. Rate (%)	Exp. Rate (%)	No. of TX	Act. Rate (%)	Exp. Rate (%)	No. of TX	No. <sup>1</sup> w/CFU	No. Failed	Act. Rate (%)	Exp. Rate (%)	Diff. (%)	p- <sup>2</sup> value
1 Month	1	100.0	96.3	5	100.0	93.3	6	6	0	100.0	93.8	6.2	0.53
1 Year	1	100.0	89.5	5	80.0	84.5	6	6	1	83.3	85.3	-2.0	0.89
Cond. <sup>3</sup> 3 Years	1	100.0	92.8				1	1	0	100.0	92.8	7.2	1.00
3 Years <sup>3</sup>		100.0	83.1										

Patient Survival

	Era 1: 1/1/88-4/30/92			Era 2: 5/1/92-4/30/94			Overall: 1/1/88-4/30/94						
Time Point	No. of Pts. <sup>4</sup>	Act. Rate (%)	Exp. Rate (%)	No. of Pts. <sup>4</sup>	Act. Rate (%)	Exp. Rate (%)	No. of Pts. <sup>4</sup>	No. <sup>1,5</sup> w/CFU	No. <sup>5</sup> Died	Act. Rate (%)	Exp. Rate (%)	Diff. (%)	p- <sup>2</sup> value
1 Month	1	100.0	96.5	5	100.0	93.6	6	6.0	0.0	100.0	94.1	5.9	0.54
1 Year	1	100.0	90.0	5	80.0	85.0	6	6.0	1.0	83.3	85.8	-2.5	0.86
Cond. <sup>3</sup> 3 Years	1	100.0	93.1				1	1.0	0.0	100.0	93.1	6.9	1.00
3 Years <sup>3</sup>		100.0	83.8										

Notes: <sup>1</sup> No. with complete follow-up (CFU) is the total of the number of patients (grafts) whose status was known during the specified time interval.

<sup>2</sup> A p-value followed by an \* indicates that the difference is statistically significant at the 0.05 level.

<sup>3</sup> Conditional 3 year survival rates are the survival rates conditional on survival at 1 year. These are computed based on transplants between 1/1/88 and 4/30/92. Three year survival rates are computed by multiplying the 1 year and the conditional 3 year survival rates.

<sup>4</sup> The numbers of patients in Era 1 and Era 2 do not necessarily add up to the number of patients in the overall period, due to repeat transplants in different eras for some patients.

<sup>5</sup> No. w/CFU or No. Died may be fractional if patients received more than one transplant at the program.

Source: UNOS OPTN/Scientific Registry data.

**Heart Transplants: January 1, 1988 - April 30, 1994**  
**Donor and Recipient Characteristics: Program and National Frequencies**

**The University Hospital of Arkansas- Little Rock AR**  
**Provider Number 040016 (ARUA)**

		----- Program -----		--- National ---	
		Number	%	Number	%
<b>Total Transplants and Percentages</b>		<b>6</b>	<b>100.0</b>	<b>12627</b>	<b>100.0</b>
<b>Donor Age</b>	0-5	0	0.0	799	6.3
	6-10	0	0.0	274	2.2
	11-17	1	16.7	2029	16.1
	18-49	5	83.3	8923	70.7
	50-64	0	0.0	589	4.7
	65+	0	0.0	12	0.1
	Not Reported	0	0.0	1	0.0
<b>Donor Gender</b>	Female	0	0.0	3728	29.5
	Male	6	100.0	8899	70.5
<b>Donor Race</b>	White	5	83.3	10036	79.5
	Black	1	16.7	1263	10.0
	Hispanic	0	0.0	1143	9.1
	Asian	0	0.0	90	0.7
	Other	0	0.0	87	0.7
	Not Reported	0	0.0	8	0.1
<b>Recipient Age</b>	<1	0	0.0	549	4.3
	1-10	0	0.0	431	3.4
	11-17	0	0.0	358	2.8
	18-49	3	50.0	4493	35.6
	50-64	3	50.0	6373	50.5
	65+	0	0.0	423	3.3
<b>Recipient Gender</b>	Female	1	16.7	2761	21.9
	Male	5	83.3	9866	78.1
<b>Recipient Race</b>	White	6	100.0	10504	83.2
	Black	0	0.0	1206	9.6
	Hispanic	0	0.0	570	4.5
	Asian	0	0.0	125	1.0
	Other	0	0.0	216	1.7
	Not Reported	0	0.0	6	0.0

		----- Program -----		--- National ---	
		Number	%	Number	%
Previous Heart Transplant	No	6	100.0	12231	96.9
	Yes	0	0.0	344	2.7
	Not Reported	0	0.0	52	0.4
On Ventilator at Transplant	No	5	83.3	11892	94.2
	Yes	1	16.7	663	5.3
	Not Reported	0	0.0	72	0.6
On VAD at Transplant	No	6	100.0	12187	96.5
	Yes	0	0.0	366	2.9
	Not Reported	0	0.0	74	0.6
On IABP at Transplant	No	5	83.3	11754	93.1
	Yes	1	16.7	801	6.3
	Not Reported	0	0.0	72	0.6
Diagnosis at Transplant	Coronary Artery Disease	3	50.0	5222	41.4
	Cardiomyopathy	3	50.0	5779	45.8
	Eisenmenger's Syndrome/Congenital	0	0.0	933	7.4
	Valvular Heart Disease	0	0.0	476	3.8
	Other Diagnosis	0	0.0	183	1.4
	Not Reported	0	0.0	34	0.3
Medical Condition at Transplant	Not Hospitalized	4	66.7	5606	44.4
	Hospitalized	0	0.0	986	7.8
	In ICU	2	33.3	6019	47.7
	Not Reported	0	0.0	16	0.1
Cold Ischemia Time	Up to 2 hrs	1	16.7	3458	27.4
	> 2 - 2.5 hrs	1	16.7	2271	18.0
	> 2.5 - 3 hrs	4	66.7	2408	19.1
	> 3 - 3.5 hrs	0	0.0	1949	15.4
	> 3.5 hrs	0	0.0	2453	19.4
	Not Reported	0	0.0	88	0.7
Year of Transplant	1988	0	0.0	1649	13.1
	1989	0	0.0	1677	13.3
	1990	0	0.0	2071	16.4
	1991	0	0.0	2098	16.6
	1992	2	33.3	2145	17.0
	1993	2	33.3	2266	17.9
	1994	2	33.3	721	5.7

Source: UNOS OPTN/Scientific Registry data.

## Heart Transplants: January 1, 1988 - April 30, 1994

Survival Report for Columbia Medical Center - Phoenix AZ  
Provider Number 030008 (AZHH)Graft Survival

	Era 1: 1/1/88-4/30/92			Era 2: 5/1/92-4/30/94			Overall: 1/1/88-4/30/94						
Time Point	No. of TX	Act. Rate (%)	Exp. Rate (%)	No. of TX	Act. Rate (%)	Exp. Rate (%)	No. of TX	No. <sup>1</sup> w/CFU	No. Failed	Act. Rate (%)	Exp. Rate (%)	Diff. (%)	p- <sup>2</sup> value
1 Month	15	86.7	93.2	1	100.0	94.7	16	16	2	87.5	93.3	-5.8	0.35
1 Year	15	80.0	84.2	1	100.0	84.8	16	16	3	81.3	84.2	-3.0	0.74
Cond. <sup>3</sup> 3 Years	12	91.7	90.3				12	12	1	91.7	90.3	1.4	0.87
3 Years <sup>3</sup>		73.3	76.0										

Patient Survival

	Era 1: 1/1/88-4/30/92			Era 2: 5/1/92-4/30/94			Overall: 1/1/88-4/30/94						
Time Point	No. of Pts. <sup>4</sup>	Act. Rate (%)	Exp. Rate (%)	No. of Pts. <sup>4</sup>	Act. Rate (%)	Exp. Rate (%)	No. of Pts. <sup>4</sup>	No. <sup>1,5</sup> w/CFU	No. <sup>5</sup> Died	Act. Rate (%)	Exp. Rate (%)	Diff. (%)	p- <sup>2</sup> value
1 Month	14	92.9	93.7	1	100.0	94.6	15	15.0	1.0	93.3	93.8	-0.4	0.94
1 Year	14	85.7	85.4	1	100.0	84.9	15	15.0	2.0	86.7	85.3	1.3	0.88
Cond. <sup>3</sup> 3 Years	12	91.7	90.9				12	12.0	1.0	91.7	90.9	0.7	0.93
3 Years <sup>3</sup>		78.6	77.6										

Notes: <sup>1</sup> No. with complete follow-up (CFU) is the total of the number of patients (grafts) whose status was known during the specified time interval.

<sup>2</sup> A p-value followed by an \* indicates that the difference is statistically significant at the 0.05 level.

<sup>3</sup> Conditional 3 year survival rates are the survival rates conditional on survival at 1 year. These are computed based on transplants between 1/1/88 and 4/30/92. Three year survival rates are computed by multiplying the 1 year and the conditional 3 year survival rates.

<sup>4</sup> The numbers of patients in Era 1 and Era 2 do not necessarily add up to the number of patients in the overall period, due to repeat transplants in different eras for some patients.

<sup>5</sup> No. w/CFU or No. Died may be fractional if patients received more than one transplant at the program.

Source: UNOS OPTN/Scientific Registry data.

**Heart Transplants: January 1, 1988 - April 30, 1994**  
**Donor and Recipient Characteristics: Program and National Frequencies**

**Columbia Medical Center - Phoenix AZ**  
**Provider Number 030008 (AZHH)**

		----- Program -----		--- National ---	
		Number	%	Number	%
<b>Total Transplants and Percentages</b>		<b>16</b>	<b>100.0</b>	<b>12627</b>	<b>100.0</b>
<b>Donor Age</b>	0-5	0	0.0	799	6.3
	6-10	0	0.0	274	2.2
	11-17	1	6.3	2029	16.1
	18-49	15	93.8	8923	70.7
	50-64	0	0.0	589	4.7
	65+	0	0.0	12	0.1
	Not Reported	0	0.0	1	0.0
<b>Donor Gender</b>	Female	1	6.3	3728	29.5
	Male	15	93.8	8899	70.5
<b>Donor Race</b>	White	14	87.5	10036	79.5
	Black	0	0.0	1263	10.0
	Hispanic	2	12.5	1143	9.1
	Asian	0	0.0	90	0.7
	Other	0	0.0	87	0.7
	Not Reported	0	0.0	8	0.1
<b>Recipient Age</b>	<1	0	0.0	549	4.3
	1-10	0	0.0	431	3.4
	11-17	0	0.0	358	2.8
	18-49	7	43.8	4493	35.6
	50-64	9	56.3	6373	50.5
	65+	0	0.0	423	3.3
<b>Recipient Gender</b>	Female	1	6.3	2761	21.9
	Male	15	93.8	9866	78.1
<b>Recipient Race</b>	White	15	93.8	10504	83.2
	Black	0	0.0	1206	9.6
	Hispanic	1	6.3	570	4.5
	Asian	0	0.0	125	1.0
	Other	0	0.0	216	1.7
	Not Reported	0	0.0	6	0.0



		----- Program -----		--- National ---	
		Number	%	Number	%
<b>Previous Heart Transplant</b>	No	15	93.8	12231	96.9
	Yes	1	6.3	344	2.7
	Not Reported	0	0.0	52	0.4
<b>On Ventilator at Transplant</b>	No	16	100.0	11892	94.2
	Yes	0	0.0	663	5.3
	Not Reported	0	0.0	72	0.6
<b>On VAD at Transplant</b>	No	16	100.0	12187	96.5
	Yes	0	0.0	366	2.9
	Not Reported	0	0.0	74	0.6
<b>On IABP at Transplant</b>	No	12	75.0	11754	93.1
	Yes	4	25.0	801	6.3
	Not Reported	0	0.0	72	0.6
<b>Diagnosis at Transplant</b>	Coronary Artery Disease	15	93.8	5222	41.4
	Cardiomyopathy	1	6.3	5779	45.8
	Eisenmenger's Syndrome/Congenital	0	0.0	933	7.4
	Valvular Heart Disease	0	0.0	476	3.8
	Other Diagnosis	0	0.0	183	1.4
	Not Reported	0	0.0	34	0.3
<b>Medical Condition at Transplant</b>	Not Hospitalized	4	25.0	5606	44.4
	Hospitalized	2	12.5	986	7.8
	In ICU	10	62.5	6019	47.7
	Not Reported	0	0.0	16	0.1
<b>Cold Ischemia Time</b>	Up to 2 hrs	12	75.0	3458	27.4
	> 2 - 2.5 hrs	3	18.8	2271	18.0
	> 2.5 - 3 hrs	1	6.3	2408	19.1
	> 3 - 3.5 hrs	0	0.0	1949	15.4
	> 3.5 hrs	0	0.0	2453	19.4
	Not Reported	0	0.0	88	0.7
<b>Year of Transplant</b>	1988	7	43.8	1649	13.1
	1989	6	37.5	1677	13.3
	1990	2	12.5	2071	16.4
	1991	0	0.0	2098	16.6
	1992	1	6.3	2145	17.0
	1993	0	0.0	2266	17.9
	1994	0	0.0	721	5.7

Source: UNOS OPTN/Scientific Registry data.

## Heart Transplants: January 1, 1988 - April 30, 1994

Survival Report for University Medical Center - Tucson AZ  
Provider Number 030064 (AZUA)Graft Survival

	Era 1: 1/1/88-4/30/92			Era 2: 5/1/92-4/30/94			Overall: 1/1/88-4/30/94						
Time Point	No. of TX	Act. Rate (%)	Exp. Rate (%)	No. of TX	Act. Rate (%)	Exp. Rate (%)	No. of TX	No. <sup>1</sup> w/CFU	No. Failed	Act. Rate (%)	Exp. Rate (%)	Diff. (%)	p- <sup>2</sup> value
1 Month	145	98.6	92.6	71	98.6	93.0	216	216	3	98.6	92.7	5.9	<0.01*
1 Year	145	92.4	83.0	71	94.4	83.6	216	216	15	93.1	83.2	9.9	<0.01*
Cond. <sup>3</sup> 3 Years	134	89.5	90.6				134	130	14	89.5	90.6	-1.1	0.65
3 Years <sup>3</sup>		82.7	75.2										

Patient Survival

	Era 1: 1/1/88-4/30/92			Era 2: 5/1/92-4/30/94			Overall: 1/1/88-4/30/94						
Time Point	No. of Pts. <sup>4</sup>	Act. Rate (%)	Exp. Rate (%)	No. of Pts. <sup>4</sup>	Act. Rate (%)	Exp. Rate (%)	No. of Pts. <sup>4</sup>	No. <sup>1,5</sup> w/CFU	No. <sup>5</sup> Died	Act. Rate (%)	Exp. Rate (%)	Diff. (%)	p- <sup>2</sup> value
1 Month	142	98.6	93.1	71	98.6	93.5	212	212.0	3.0	98.6	93.2	5.4	<0.01*
1 Year	142	92.2	83.9	71	94.3	84.3	212	212.0	15.0	92.9	84.0	8.9	<0.01*
Cond. <sup>3</sup> 3 Years	131	91.2	91.1				131	127.0	11.5	91.2	91.1	0.0	0.99
3 Years <sup>3</sup>		84.1	76.5										

Notes: <sup>1</sup> No. with complete follow-up (CFU) is the total of the number of patients (grafts) whose status was known during the specified time interval.

<sup>2</sup> A p-value followed by an \* indicates that the difference is statistically significant at the 0.05 level.

<sup>3</sup> Conditional 3 year survival rates are the survival rates conditional on survival at 1 year. These are computed based on transplants between 1/1/88 and 4/30/92. Three year survival rates are computed by multiplying the 1 year and the conditional 3 year survival rates.

<sup>4</sup> The numbers of patients in Era 1 and Era 2 do not necessarily add up to the number of patients in the overall period, due to repeat transplants in different eras for some patients.

<sup>5</sup> No. w/CFU or No. Died may be fractional if patients received more than one transplant at the program.

Source: UNOS OPTN/Scientific Registry data.

**Heart Transplants: January 1, 1988 - April 30, 1994**  
**Donor and Recipient Characteristics: Program and National Frequencies**

**University Medical Center - Tucson AZ**  
**Provider Number 030064 (AZUA)**

		----- Program -----		--- National ---	
		Number	%	Number	%
<b>Total Transplants and Percentages</b>		<b>216</b>	<b>100.0</b>	<b>12627</b>	<b>100.0</b>
<b>Donor Age</b>	0-5	3	1.4	799	6.3
	6-10	5	2.3	274	2.2
	11-17	52	24.1	2029	16.1
	18-49	154	71.3	8923	70.7
	50-64	2	0.9	589	4.7
	65+	0	0.0	12	0.1
	Not Reported	0	0.0	1	0.0
<b>Donor Gender</b>	Female	64	29.6	3728	29.5
	Male	152	70.4	8899	70.5
<b>Donor Race</b>	White	163	75.5	10036	79.5
	Black	9	4.2	1263	10.0
	Hispanic	36	16.7	1143	9.1
	Asian	3	1.4	90	0.7
	Other	5	2.3	87	0.7
	Not Reported	0	0.0	8	0.1
<b>Recipient Age</b>	<1	1	0.5	549	4.3
	1-10	4	1.9	431	3.4
	11-17	2	0.9	358	2.8
	18-49	92	42.6	4493	35.6
	50-64	104	48.1	6373	50.5
	65+	13	6.0	423	3.3
<b>Recipient Gender</b>	Female	35	16.2	2761	21.9
	Male	181	83.8	9866	78.1
<b>Recipient Race</b>	White	191	88.4	10504	83.2
	Black	6	2.8	1206	9.6
	Hispanic	15	6.9	570	4.5
	Asian	0	0.0	125	1.0
	Other	4	1.9	216	1.7
	Not Reported	0	0.0	6	0.0

		---- Program ----		--- National ---	
		Number	%	Number	%
<b>Previous Heart Transplant</b>	No	200	92.6	12231	96.9
	Yes	11	5.1	344	2.7
	Not Reported	5	2.3	52	0.4
<b>On Ventilator at Transplant</b>	No	216	100.0	11892	94.2
	Yes	0	0.0	663	5.3
	Not Reported	0	0.0	72	0.6
<b>On VAD at Transplant</b>	No	209	96.8	12187	96.5
	Yes	6	2.8	366	2.9
	Not Reported	1	0.5	74	0.6
<b>On IABP at Transplant</b>	No	208	96.3	11754	93.1
	Yes	8	3.7	801	6.3
	Not Reported	0	0.0	72	0.6
<b>Diagnosis at Transplant</b>	Coronary Artery Disease	103	47.7	5222	41.4
	Cardiomyopathy	92	42.6	5779	45.8
	Eisenmenger's Syndrome/Congenital	7	3.2	933	7.4
	Valvular Heart Disease	13	6.0	476	3.8
	Other Diagnosis	1	0.5	183	1.4
	Not Reported	0	0.0	34	0.3
<b>Medical Condition at Transplant</b>	Not Hospitalized	112	51.9	5606	44.4
	Hospitalized	1	0.5	986	7.8
	In ICU	102	47.2	6019	47.7
	Not Reported	1	0.5	16	0.1
<b>Cold Ischemia Time</b>	Up to 2 hrs	40	18.5	3458	27.4
	> 2 - 2.5 hrs	44	20.4	2271	18.0
	> 2.5 - 3 hrs	57	26.4	2408	19.1
	> 3 - 3.5 hrs	37	17.1	1949	15.4
	> 3.5 hrs	38	17.6	2453	19.4
	Not Reported	0	0.0	88	0.7
<b>Year of Transplant</b>	1988	29	13.4	1649	13.1
	1989	31	14.4	1677	13.3
	1990	40	18.5	2071	16.4
	1991	33	15.3	2098	16.6
	1992	30	13.9	2145	17.0
	1993	36	16.7	2266	17.9
	1994	17	7.9	721	5.7

Source: UNOS OPTN/Scientific Registry data.

## Heart Transplants: January 1, 1988 - April 30, 1994

Survival Report for Children's Hospital - Los Angeles CA  
Provider Number 053302 (CACL)Graft Survival

	Era 1: 1/1/88-4/30/92			Era 2: 5/1/92-4/30/94			Overall: 1/1/88-4/30/94						
Time Point	No. of TX	Act. Rate (%)	Exp. Rate (%)	No. of TX	Act. Rate (%)	Exp. Rate (%)	No. of TX	No. <sup>1</sup> w/CFU	No. Failed	Act. Rate (%)	Exp. Rate (%)	Diff. (%)	p- <sup>2</sup> value
1 Month				3	66.7	85.4	3	3	1	66.7	85.4	-18.8	0.38
1 Year				3	33.3	76.0	3	3	2	33.3	76.0	-42.7	0.14
Cond. <sup>3</sup> 3 Years													
3 Years <sup>3</sup>													

Patient Survival

	Era 1: 1/1/88-4/30/92			Era 2: 5/1/92-4/30/94			Overall: 1/1/88-4/30/94						
Time Point	No. of Pts. <sup>4</sup>	Act. Rate (%)	Exp. Rate (%)	No. of Pts. <sup>4</sup>	Act. Rate (%)	Exp. Rate (%)	No. of Pts. <sup>4</sup>	No. <sup>1,5</sup> w/CFU	No. <sup>5</sup> Died	Act. Rate (%)	Exp. Rate (%)	Diff. (%)	p- <sup>2</sup> value
1 Month				3	66.7	86.1	3	3.0	1.0	66.7	86.1	-19.4	0.36
1 Year				3	33.3	76.8	3	3.0	2.0	33.3	76.8	-43.5	0.14
Cond. <sup>3</sup> 3 Years													
3 Years <sup>3</sup>													

Notes: <sup>1</sup> No. with complete follow-up (CFU) is the total of the number of patients (grafts) whose status was known during the specified time interval.

<sup>2</sup> A p-value followed by an \* indicates that the difference is statistically significant at the 0.05 level.

<sup>3</sup> Conditional 3 year survival rates are the survival rates conditional on survival at 1 year. These are computed based on transplants between 1/1/88 and 4/30/92. Three year survival rates are computed by multiplying the 1 year and the conditional 3 year survival rates.

<sup>4</sup> The numbers of patients in Era 1 and Era 2 do not necessarily add up to the number of patients in the overall period, due to repeat transplants in different eras for some patients.

<sup>5</sup> No. w/CFU or No. Died may be fractional if patients received more than one transplant at the program.

Source: UNOS OPTN/Scientific Registry data.



**Heart Transplants: January 1, 1988 - April 30, 1994**  
**Donor and Recipient Characteristics: Program and National Frequencies**

**Children's Hospital - Los Angeles CA**  
**Provider Number 053302 (CACL)**

		----- Program -----		--- National ---	
		Number	%	Number	%
<b>Total Transplants and Percentages</b>		<b>3</b>	<b>100.0</b>	<b>12627</b>	<b>100.0</b>
<b>Donor Age</b>	0-5	2	66.7	799	6.3
	6-10	0	0.0	274	2.2
	11-17	0	0.0	2029	16.1
	18-49	1	33.3	8923	70.7
	50-64	0	0.0	589	4.7
	65+	0	0.0	12	0.1
	Not Reported	0	0.0	1	0.0
<b>Donor Gender</b>	Female	1	33.3	3728	29.5
	Male	2	66.7	8899	70.5
<b>Donor Race</b>	White	2	66.7	10036	79.5
	Black	1	33.3	1263	10.0
	Hispanic	0	0.0	1143	9.1
	Asian	0	0.0	90	0.7
	Other	0	0.0	87	0.7
	Not Reported	0	0.0	8	0.1
<b>Recipient Age</b>	<1	1	33.3	549	4.3
	1-10	1	33.3	431	3.4
	11-17	1	33.3	358	2.8
	18-49	0	0.0	4493	35.6
	50-64	0	0.0	6373	50.5
	65+	0	0.0	423	3.3
<b>Recipient Gender</b>	Female	0	0.0	2761	21.9
	Male	3	100.0	9866	78.1
<b>Recipient Race</b>	White	2	66.7	10504	83.2
	Black	0	0.0	1206	9.6
	Hispanic	1	33.3	570	4.5
	Asian	0	0.0	125	1.0
	Other	0	0.0	216	1.7
	Not Reported	0	0.0	6	0.0

		----- Program -----		--- National ---	
		Number	%	Number	%
<b>Previous Heart Transplant</b>	No	3	100.0	12231	96.9
	Yes	0	0.0	344	2.7
	Not Reported	0	0.0	52	0.4
<b>On Ventilator at Transplant</b>	No	2	66.7	11892	94.2
	Yes	1	33.3	663	5.3
	Not Reported	0	0.0	72	0.6
<b>On VAD at Transplant</b>	No	3	100.0	12187	96.5
	Yes	0	0.0	366	2.9
	Not Reported	0	0.0	74	0.6
<b>On IABP at Transplant</b>	No	3	100.0	11754	93.1
	Yes	0	0.0	801	6.3
	Not Reported	0	0.0	72	0.6
<b>Diagnosis at Transplant</b>	Coronary Artery Disease	0	0.0	5222	41.4
	Cardiomyopathy	1	33.3	5779	45.8
	Eisenmenger's Syndrome/Congenital	2	66.7	933	7.4
	Valvular Heart Disease	0	0.0	476	3.8
	Other Diagnosis	0	0.0	183	1.4
	Not Reported	0	0.0	34	0.3
<b>Medical Condition at Transplant</b>	Not Hospitalized	0	0.0	5606	44.4
	Hospitalized	0	0.0	986	7.8
	In ICU	3	100.0	6019	47.7
	Not Reported	0	0.0	16	0.1
<b>Cold Ischemia Time</b>	Up to 2 hrs	1	33.3	3458	27.4
	> 2 - 2.5 hrs	1	33.3	2271	18.0
	> 2.5 - 3 hrs	0	0.0	2408	19.1
	> 3 - 3.5 hrs	0	0.0	1949	15.4
	> 3.5 hrs	1	33.3	2453	19.4
	Not Reported	0	0.0	88	0.7
<b>Year of Transplant</b>	1988	0	0.0	1649	13.1
	1989	0	0.0	1677	13.3
	1990	0	0.0	2071	16.4
	1991	0	0.0	2098	16.6
	1992	0	0.0	2145	17.0
	1993	3	100.0	2266	17.9
	1994	0	0.0	721	5.7

Source: UNOS OPTN/Scientific Registry data.

**Response From: Children's Hospital Los Angeles**  
**4650 Sunset Boulevard, Los Angeles, CA 90027**  
**Provider Number 053302 (CACL)**

May 8, 1997

The Cardiothoracic Transplant Program at Children's Hospital Los Angeles began in February, 1993. The transplant survival rate reflected here represents a very complex group of pediatric patients at the beginning of the program. Additionally, in the pediatric population, due to the nature of congenital Heart disease, many of these patients have additional risk factors, such as previous cardiothoracic surgery.

Children Hospital has met strict criteria as an active member of UNOS. We have now performed several Heart transplants and meet expected survival rate overall.

Vaughn Starnes, M.D.  
Head, Division of Cardiothoracic Surgery



## Heart Transplants: January 1, 1988 - April 30, 1994

Survival Report for Cedars-Sinai Medical Center - Los Angeles CA  
Provider Number 050625 (CACS)Graft Survival

	Era 1: 1/1/88-4/30/92			Era 2: 5/1/92-4/30/94			Overall: 1/1/88-4/30/94						
Time Point	No. of TX	Act. Rate (%)	Exp. Rate (%)	No. of TX	Act. Rate (%)	Exp. Rate (%)	No. of TX	No. <sup>1</sup> w/CFU	No. Failed	Act. Rate (%)	Exp. Rate (%)	Diff. (%)	p- <sup>2</sup> value
1 Month	79	93.7	92.7	50	100.0	92.0	129	129	5	96.1	92.4	3.7	0.10
1 Year	79	86.1	81.8	50	96.0	81.4	129	128	13	89.9	81.7	8.2	0.01*
Cond. <sup>3</sup> 3 Years	68	85.3	89.4				68	68	10	85.3	89.4	-4.1	0.26
3 Years <sup>3</sup>		73.4	73.2										

Patient Survival

	Era 1: 1/1/88-4/30/92			Era 2: 5/1/92-4/30/94			Overall: 1/1/88-4/30/94						
Time Point	No. of Pts. <sup>4</sup>	Act. Rate (%)	Exp. Rate (%)	No. of Pts. <sup>4</sup>	Act. Rate (%)	Exp. Rate (%)	No. of Pts. <sup>4</sup>	No. <sup>1,5</sup> w/CFU	No. <sup>5</sup> Died	Act. Rate (%)	Exp. Rate (%)	Diff. (%)	p- <sup>2</sup> value
1 Month	78	94.9	93.0	50	100.0	92.2	128	128.0	4.0	96.9	92.7	4.2	0.06
1 Year	78	87.2	82.6	50	96.0	81.8	128	127.0	12.0	90.6	82.3	8.3	0.01*
Cond. <sup>3</sup> 3 Years	68	85.3	89.9				68	68.0	10.0	85.3	89.9	-4.6	0.20
3 Years <sup>3</sup>		74.4	74.2										

Notes: <sup>1</sup> No. with complete follow-up (CFU) is the total of the number of patients (grafts) whose status was known during the specified time interval.

<sup>2</sup> A p-value followed by an \* indicates that the difference is statistically significant at the 0.05 level.

<sup>3</sup> Conditional 3 year survival rates are the survival rates conditional on survival at 1 year. These are computed based on transplants between 1/1/88 and 4/30/92. Three year survival rates are computed by multiplying the 1 year and the conditional 3 year survival rates.

<sup>4</sup> The numbers of patients in Era 1 and Era 2 do not necessarily add up to the number of patients in the overall period, due to repeat transplants in different eras for some patients.

<sup>5</sup> No. w/CFU or No. Died may be fractional if patients received more than one transplant at the program.

Source: UNOS OPTN/Scientific Registry data.

**Heart Transplants: January 1, 1988 - April 30, 1994**  
**Donor and Recipient Characteristics: Program and National Frequencies**

**Cedars-Sinai Medical Center - Los Angeles CA**  
**Provider Number 050625 (CACS)**

		----- Program -----		--- National ---	
		Number	%	Number	%
<b>Total Transplants and Percentages</b>		<b>129</b>	<b>100.0</b>	<b>12627</b>	<b>100.0</b>
<b>Donor Age</b>	0-5	0	0.0	799	6.3
	6-10	1	0.8	274	2.2
	11-17	19	14.7	2029	16.1
	18-49	104	80.6	8923	70.7
	50-64	5	3.9	589	4.7
	65+	0	0.0	12	0.1
	Not Reported	0	0.0	1	0.0
<b>Donor Gender</b>	Female	30	23.3	3728	29.5
	Male	99	76.7	8899	70.5
<b>Donor Race</b>	White	84	65.1	10036	79.5
	Black	12	9.3	1263	10.0
	Hispanic	30	23.3	1143	9.1
	Asian	3	2.3	90	0.7
	Other	0	0.0	87	0.7
	Not Reported	0	0.0	8	0.1
<b>Recipient Age</b>	<1	0	0.0	549	4.3
	1-10	0	0.0	431	3.4
	11-17	1	0.8	358	2.8
	18-49	33	25.6	4493	35.6
	50-64	70	54.3	6373	50.5
	65+	25	19.4	423	3.3
<b>Recipient Gender</b>	Female	15	11.6	2761	21.9
	Male	114	88.4	9866	78.1
<b>Recipient Race</b>	White	99	76.7	10504	83.2
	Black	11	8.5	1206	9.6
	Hispanic	6	4.7	570	4.5
	Asian	6	4.7	125	1.0
	Other	7	5.4	216	1.7
	Not Reported	0	0.0	6	0.0



		----- Program -----		--- National ---	
		Number	%	Number	%
<b>Previous Heart Transplant</b>	No	128	99.2	12231	96.9
	Yes	1	0.8	344	2.7
	Not Reported	0	0.0	52	0.4
<b>On Ventilator at Transplant</b>	No	126	97.7	11892	94.2
	Yes	3	2.3	663	5.3
	Not Reported	0	0.0	72	0.6
<b>On VAD at Transplant</b>	No	129	100.0	12187	96.5
	Yes	0	0.0	366	2.9
	Not Reported	0	0.0	74	0.6
<b>On IABP at Transplant</b>	No	120	93.0	11754	93.1
	Yes	9	7.0	801	6.3
	Not Reported	0	0.0	72	0.6
<b>Diagnosis at Transplant</b>	Coronary Artery Disease	76	58.9	5222	41.4
	Cardiomyopathy	52	40.3	5779	45.8
	Eisenmenger's Syndrome/Congenital	1	0.8	933	7.4
	Valvular Heart Disease	0	0.0	476	3.8
	Other Diagnosis	0	0.0	183	1.4
	Not Reported	0	0.0	34	0.3
<b>Medical Condition at Transplant</b>	Not Hospitalized	39	30.2	5606	44.4
	Hospitalized	0	0.0	986	7.8
	In ICU	90	69.8	6019	47.7
	Not Reported	0	0.0	16	0.1
<b>Cold Ischemia Time</b>	Up to 2 hrs	32	24.8	3458	27.4
	> 2 - 2.5 hrs	37	28.7	2271	18.0
	> 2.5 - 3 hrs	39	30.2	2408	19.1
	> 3 - 3.5 hrs	15	11.6	1949	15.4
	> 3.5 hrs	6	4.7	2453	19.4
	Not Reported	0	0.0	88	0.7
<b>Year of Transplant</b>	1988	1	0.8	1649	13.1
	1989	16	12.4	1677	13.3
	1990	29	22.5	2071	16.4
	1991	23	17.8	2098	16.6
	1992	25	19.4	2145	17.0
	1993	27	20.9	2266	17.9
	1994	8	6.2	721	5.7

Source: UNOS OPTN/Scientific Registry data.

## Heart Transplants: January 1, 1988 - April 30, 1994

Survival Report for Eisenhower Memorial Hospital - Rancho Mirage CA  
Provider Number 050573 (CAEM)Graft Survival

	Era 1: 1/1/88-4/30/92			Era 2: 5/1/92-4/30/94			Overall: 1/1/88-4/30/94						
Time Point	No. of TX	Act. Rate (%)	Exp. Rate (%)	No. of TX	Act. Rate (%)	Exp. Rate (%)	No. of TX	No. <sup>1</sup> w/CFU	No. Failed	Act. Rate (%)	Exp. Rate (%)	Diff. (%)	p- <sup>2</sup> value
1 Month	1	100.0	93.7	2	50.0	89.8	3	3	1	66.7	91.1	-24.4	0.24
1 Year	1	100.0	83.0	2	44.6	78.9	3	2	1	64.4	80.4	-16.0	0.46
Cond. <sup>3</sup> 3 Years													
3 Years <sup>3</sup>													

Patient Survival

	Era 1: 1/1/88-4/30/92			Era 2: 5/1/92-4/30/94			Overall: 1/1/88-4/30/94						
Time Point	No. of Pts. <sup>4</sup>	Act. Rate (%)	Exp. Rate (%)	No. of Pts. <sup>4</sup>	Act. Rate (%)	Exp. Rate (%)	No. of Pts. <sup>4</sup>	No. <sup>1,5</sup> w/CFU	No. <sup>5</sup> Died	Act. Rate (%)	Exp. Rate (%)	Diff. (%)	p- <sup>2</sup> value
1 Month	1	100.0	93.7	2	50.0	89.9	3	3.0	1.0	66.7	91.2	-24.5	0.24
1 Year	1	100.0	83.3	2	44.6	79.1	3	2.0	1.0	64.4	80.6	-16.2	0.45
Cond. <sup>3</sup> 3 Years													
3 Years <sup>3</sup>													

Notes: <sup>1</sup> No. with complete follow-up (CFU) is the total of the number of patients (grafts) whose status was known during the specified time interval.

<sup>2</sup> A p-value followed by an \* indicates that the difference is statistically significant at the 0.05 level.

<sup>3</sup> Conditional 3 year survival rates are the survival rates conditional on survival at 1 year. These are computed based on transplants between 1/1/88 and 4/30/92. Three year survival rates are computed by multiplying the 1 year and the conditional 3 year survival rates.

<sup>4</sup> The numbers of patients in Era 1 and Era 2 do not necessarily add up to the number of patients in the overall period, due to repeat transplants in different eras for some patients.

<sup>5</sup> No. w/CFU or No. Died may be fractional if patients received more than one transplant at the program.

Source: UNOS OPTN/Scientific Registry data.

**Heart Transplants: January 1, 1988 - April 30, 1994**  
**Donor and Recipient Characteristics: Program and National Frequencies**

**Eisenhower Memorial Hospital - Rancho Mirage CA**  
**Provider Number 050573 (CAEM)**

		----- Program -----		--- National ---	
		Number	%	Number	%
<b>Total Transplants and Percentages</b>		<b>3</b>	<b>100.0</b>	<b>12627</b>	<b>100.0</b>
<b>Donor Age</b>	0-5	0	0.0	799	6.3
	6-10	0	0.0	274	2.2
	11-17	1	33.3	2029	16.1
	18-49	2	66.7	8923	70.7
	50-64	0	0.0	589	4.7
	65+	0	0.0	12	0.1
	Not Reported	0	0.0	1	0.0
<b>Donor Gender</b>	Female	0	0.0	3728	29.5
	Male	3	100.0	8899	70.5
<b>Donor Race</b>	White	3	100.0	10036	79.5
	Black	0	0.0	1263	10.0
	Hispanic	0	0.0	1143	9.1
	Asian	0	0.0	90	0.7
	Other	0	0.0	87	0.7
	Not Reported	0	0.0	8	0.1
<b>Recipient Age</b>	<1	0	0.0	549	4.3
	1-10	0	0.0	431	3.4
	11-17	0	0.0	358	2.8
	18-49	1	33.3	4493	35.6
	50-64	1	33.3	6373	50.5
	65+	1	33.3	423	3.3
<b>Recipient Gender</b>	Female	0	0.0	2761	21.9
	Male	3	100.0	9866	78.1
<b>Recipient Race</b>	White	1	33.3	10504	83.2
	Black	0	0.0	1206	9.6
	Hispanic	1	33.3	570	4.5
	Asian	0	0.0	125	1.0
	Other	1	33.3	216	1.7
	Not Reported	0	0.0	6	0.0

		----- Program -----		--- National ---	
		Number	%	Number	%
<b>Previous Heart Transplant</b>	No	3	100.0	12231	96.9
	Yes	0	0.0	344	2.7
	Not Reported	0	0.0	52	0.4
<b>On Ventilator at Transplant</b>	No	2	66.7	11892	94.2
	Yes	1	33.3	663	5.3
	Not Reported	0	0.0	72	0.6
<b>On VAD at Transplant</b>	No	3	100.0	12187	96.5
	Yes	0	0.0	366	2.9
	Not Reported	0	0.0	74	0.6
<b>On IABP at Transplant</b>	No	3	100.0	11754	93.1
	Yes	0	0.0	801	6.3
	Not Reported	0	0.0	72	0.6
<b>Diagnosis at Transplant</b>	Coronary Artery Disease	2	66.7	5222	41.4
	Cardiomyopathy	1	33.3	5779	45.8
	Eisenmenger's Syndrome/Congenital	0	0.0	933	7.4
	Valvular Heart Disease	0	0.0	476	3.8
	Other Diagnosis	0	0.0	183	1.4
	Not Reported	0	0.0	34	0.3
<b>Medical Condition at Transplant</b>	Not Hospitalized	2	66.7	5606	44.4
	Hospitalized	0	0.0	986	7.8
	In ICU	1	33.3	6019	47.7
	Not Reported	0	0.0	16	0.1
<b>Cold Ischemia Time</b>	Up to 2 hrs	0	0.0	3458	27.4
	> 2 - 2.5 hrs	0	0.0	2271	18.0
	> 2.5 - 3 hrs	2	66.7	2408	19.1
	> 3 - 3.5 hrs	1	33.3	1949	15.4
	> 3.5 hrs	0	0.0	2453	19.4
	Not Reported	0	0.0	88	0.7
<b>Year of Transplant</b>	1988	0	0.0	1649	13.1
	1989	0	0.0	1677	13.3
	1990	0	0.0	2071	16.4
	1991	0	0.0	2098	16.6
	1992	1	33.3	2145	17.0
	1993	2	66.7	2266	17.9
	1994	0	0.0	721	5.7

Source: UNOS OPTN/Scientific Registry data.

## Heart Transplants: January 1, 1988 - April 30, 1994

Survival Report for University of California-Irvine Medical Center - Orange CA  
Provider Number 050348 (CAIM)Graft Survival

	Era 1: 1/1/88-4/30/92			Era 2: 5/1/92-4/30/94			Overall: 1/1/88-4/30/94						
Time Point	No. of TX	Act. Rate (%)	Exp. Rate (%)	No. of TX	Act. Rate (%)	Exp. Rate (%)	No. of TX	No. <sup>1</sup> w/CFU	No. Failed	Act. Rate (%)	Exp. Rate (%)	Diff. (%)	p- <sup>2</sup> value
1 Month	20	90.0	93.6	12	91.7	94.4	32	32	3	90.6	93.9	-3.3	0.44
1 Year	20	85.0	82.7	12	83.3	85.6	32	32	5	84.4	83.8	0.6	0.92
Cond. <sup>3</sup> 3 Years	17	94.1	89.4				17	17	1	94.1	89.4	4.7	0.53
3 Years <sup>3</sup>		80.0	74.0										

Patient Survival

	Era 1: 1/1/88-4/30/92			Era 2: 5/1/92-4/30/94			Overall: 1/1/88-4/30/94						
Time Point	No. of Pts. <sup>4</sup>	Act. Rate (%)	Exp. Rate (%)	No. of Pts. <sup>4</sup>	Act. Rate (%)	Exp. Rate (%)	No. of Pts. <sup>4</sup>	No. <sup>1,5</sup> w/CFU	No. <sup>5</sup> Died	Act. Rate (%)	Exp. Rate (%)	Diff. (%)	p- <sup>2</sup> value
1 Month	19	92.1	93.9	12	91.7	94.6	31	31.0	2.5	91.9	94.2	-2.2	0.59
1 Year	19	89.5	83.5	12	83.3	86.0	31	31.0	4.0	87.1	84.5	2.6	0.68
Cond. <sup>3</sup> 3 Years	17	94.1	90.0				17	17.0	1.0	94.1	90.0	4.2	0.56
3 Years <sup>3</sup>		84.2	75.2										

Notes: <sup>1</sup> No. with complete follow-up (CFU) is the total of the number of patients (grafts) whose status was known during the specified time interval.

<sup>2</sup> A p-value followed by an \* indicates that the difference is statistically significant at the 0.05 level.

<sup>3</sup> Conditional 3 year survival rates are the survival rates conditional on survival at 1 year. These are computed based on transplants between 1/1/88 and 4/30/92. Three year survival rates are computed by multiplying the 1 year and the conditional 3 year survival rates.

<sup>4</sup> The numbers of patients in Era 1 and Era 2 do not necessarily add up to the number of patients in the overall period, due to repeat transplants in different eras for some patients.

<sup>5</sup> No. w/CFU or No. Died may be fractional if patients received more than one transplant at the program.

Source: UNOS OPTN/Scientific Registry data.



**Heart Transplants: January 1, 1988 - April 30, 1994**  
**Donor and Recipient Characteristics: Program and National Frequencies**

**University of California-Irvine Medical Center - Orange CA**  
**Provider Number 050348 (CAIM)**

		----- Program -----		--- National ---	
		Number	%	Number	%
<b>Total Transplants and Percentages</b>		<b>32</b>	<b>100.0</b>	<b>12627</b>	<b>100.0</b>
<b>Donor Age</b>	0-5	0	0.0	799	6.3
	6-10	0	0.0	274	2.2
	11-17	5	15.6	2029	16.1
	18-49	27	84.4	8923	70.7
	50-64	0	0.0	589	4.7
	65+	0	0.0	12	0.1
	Not Reported	0	0.0	1	0.0
<b>Donor Gender</b>	Female	3	9.4	3728	29.5
	Male	29	90.6	8899	70.5
<b>Donor Race</b>	White	18	56.3	10036	79.5
	Black	4	12.5	1263	10.0
	Hispanic	10	31.3	1143	9.1
	Asian	0	0.0	90	0.7
	Other	0	0.0	87	0.7
	Not Reported	0	0.0	8	0.1
<b>Recipient Age</b>	<1	0	0.0	549	4.3
	1-10	0	0.0	431	3.4
	11-17	0	0.0	358	2.8
	18-49	13	40.6	4493	35.6
	50-64	17	53.1	6373	50.5
	65+	2	6.3	423	3.3
<b>Recipient Gender</b>	Female	1	3.1	2761	21.9
	Male	31	96.9	9866	78.1
<b>Recipient Race</b>	White	25	78.1	10504	83.2
	Black	1	3.1	1206	9.6
	Hispanic	2	6.3	570	4.5
	Asian	4	12.5	125	1.0
	Other	0	0.0	216	1.7
	Not Reported	0	0.0	6	0.0

		----- Program -----		--- National ---	
		Number	%	Number	%
<b>Previous Heart Transplant</b>	No	31	96.9	12231	96.9
	Yes	1	3.1	344	2.7
	Not Reported	0	0.0	52	0.4
<b>On Ventilator at Transplant</b>	No	31	96.9	11892	94.2
	Yes	1	3.1	663	5.3
	Not Reported	0	0.0	72	0.6
<b>On VAD at Transplant</b>	No	32	100.0	12187	96.5
	Yes	0	0.0	366	2.9
	Not Reported	0	0.0	74	0.6
<b>On IABP at Transplant</b>	No	30	93.8	11754	93.1
	Yes	2	6.3	801	6.3
	Not Reported	0	0.0	72	0.6
<b>Diagnosis at Transplant</b>	Coronary Artery Disease	4	12.5	5222	41.4
	Cardiomyopathy	28	87.5	5779	45.8
	Eisenmenger's Syndrome/Congenital	0	0.0	933	7.4
	Valvular Heart Disease	0	0.0	476	3.8
	Other Diagnosis	0	0.0	183	1.4
	Not Reported	0	0.0	34	0.3
<b>Medical Condition at Transplant</b>	Not Hospitalized	7	21.9	5606	44.4
	Hospitalized	3	9.4	986	7.8
	In ICU	22	68.8	6019	47.7
	Not Reported	0	0.0	16	0.1
<b>Cold Ischemia Time</b>	Up to 2 hrs	20	62.5	3458	27.4
	> 2 - 2.5 hrs	6	18.8	2271	18.0
	> 2.5 - 3 hrs	3	9.4	2408	19.1
	> 3 - 3.5 hrs	3	9.4	1949	15.4
	> 3.5 hrs	0	0.0	2453	19.4
	Not Reported	0	0.0	88	0.7
<b>Year of Transplant</b>	1988	5	15.6	1649	13.1
	1989	3	9.4	1677	13.3
	1990	3	9.4	2071	16.4
	1991	6	18.8	2098	16.6
	1992	9	28.1	2145	17.0
	1993	5	15.6	2266	17.9
	1994	1	3.1	721	5.7

Source: UNOS OPTN/Scientific Registry data.

## Heart Transplants: January 1, 1988 - April 30, 1994

Survival Report for Loma Linda University Medical Center - Loma Linda CA  
Provider Number 050327 (CALL)Graft Survival

	Era 1: 1/1/88-4/30/92			Era 2: 5/1/92-4/30/94			Overall: 1/1/88-4/30/94						
Time Point	No. of TX	Act. Rate (%)	Exp. Rate (%)	No. of TX	Act. Rate (%)	Exp. Rate (%)	No. of TX	No. <sup>1</sup> w/CFU	No. Failed	Act. Rate (%)	Exp. Rate (%)	Diff. (%)	p- <sup>2</sup> value
1 Month	197	91.9	79.9	70	92.9	81.2	267	267	21	92.1	80.2	11.9	<0.01*
1 Year	197	82.9	67.5	70	80.3	69.6	267	250	46	82.2	68.1	14.2	<0.01*
Cond. <sup>3</sup> 3 Years	146	88.0	88.3				146	128	16	88.0	88.3	-0.3	0.91
3 Years <sup>3</sup>		73.0	59.6										

Patient Survival

	Era 1: 1/1/88-4/30/92			Era 2: 5/1/92-4/30/94			Overall: 1/1/88-4/30/94						
Time Point	No. of Pts. <sup>4</sup>	Act. Rate (%)	Exp. Rate (%)	No. of Pts. <sup>4</sup>	Act. Rate (%)	Exp. Rate (%)	No. of Pts. <sup>4</sup>	No. <sup>1,5</sup> w/CFU	No. <sup>5</sup> Died	Act. Rate (%)	Exp. Rate (%)	Diff. (%)	p- <sup>2</sup> value
1 Month	195	92.3	80.5	70	92.8	81.7	264	264.0	20.0	92.4	80.8	11.6	<0.01*
1 Year	195	83.7	68.8	70	80.1	70.7	264	247.0	44.0	82.8	69.3	13.5	<0.01*
Cond. <sup>3</sup> 3 Years	146	88.8	88.7				146	128.0	15.0	88.8	88.7	0.1	0.97
3 Years <sup>3</sup>		74.3	61.0										

Notes: <sup>1</sup> No. with complete follow-up (CFU) is the total of the number of patients (grafts) whose status was known during the specified time interval.

<sup>2</sup> A p-value followed by an \* indicates that the difference is statistically significant at the 0.05 level.

<sup>3</sup> Conditional 3 year survival rates are the survival rates conditional on survival at 1 year. These are computed based on transplants between 1/1/88 and 4/30/92. Three year survival rates are computed by multiplying the 1 year and the conditional 3 year survival rates.

<sup>4</sup> The numbers of patients in Era 1 and Era 2 do not necessarily add up to the number of patients in the overall period, due to repeat transplants in different eras for some patients.

<sup>5</sup> No. w/CFU or No. Died may be fractional if patients received more than one transplant at the program.

Source: UNOS OPTN/Scientific Registry data.

**Heart Transplants: January 1, 1988 - April 30, 1994**  
**Donor and Recipient Characteristics: Program and National Frequencies**

**Loma Linda University Medical Center - Loma Linda CA**  
**Provider Number 050327 (CALL)**

		----- Program -----		--- National ---	
		Number	%	Number	%
<b>Total Transplants and Percentages</b>		<b>267</b>	<b>100.0</b>	<b>12627</b>	<b>100.0</b>
<b>Donor Age</b>	0-5	200	74.9	799	6.3
	6-10	26	9.7	274	2.2
	11-17	9	3.4	2029	16.1
	18-49	23	8.6	8923	70.7
	50-64	8	3.0	589	4.7
	65+	1	0.4	12	0.1
	Not Reported	0	0.0	1	0.0
<b>Donor Gender</b>	Female	114	42.7	3728	29.5
	Male	153	57.3	8899	70.5
<b>Donor Race</b>	White	172	64.4	10036	79.5
	Black	32	12.0	1263	10.0
	Hispanic	56	21.0	1143	9.1
	Asian	1	0.4	90	0.7
	Other	6	2.2	87	0.7
	Not Reported	0	0.0	8	0.1
<b>Recipient Age</b>	<1	172	64.4	549	4.3
	1-10	49	18.4	431	3.4
	11-17	11	4.1	358	2.8
	18-49	15	5.6	4493	35.6
	50-64	19	7.1	6373	50.5
	65+	1	0.4	423	3.3
<b>Recipient Gender</b>	Female	100	37.5	2761	21.9
	Male	167	62.5	9866	78.1
<b>Recipient Race</b>	White	163	61.0	10504	83.2
	Black	12	4.5	1206	9.6
	Hispanic	74	27.7	570	4.5
	Asian	14	5.2	125	1.0
	Other	4	1.5	216	1.7
	Not Reported	0	0.0	6	0.0

		----- Program -----		--- National ---	
		Number	%	Number	%
<b>Previous Heart Transplant</b>	No	263	98.5	12231	96.9
	Yes	4	1.5	344	2.7
	Not Reported	0	0.0	52	0.4
<b>On Ventilator at Transplant</b>	No	180	67.4	11892	94.2
	Yes	87	32.6	663	5.3
	Not Reported	0	0.0	72	0.6
<b>On VAD at Transplant</b>	No	265	99.3	12187	96.5
	Yes	2	0.7	366	2.9
	Not Reported	0	0.0	74	0.6
<b>On IABP at Transplant</b>	No	266	99.6	11754	93.1
	Yes	1	0.4	801	6.3
	Not Reported	0	0.0	72	0.6
<b>Diagnosis at Transplant</b>	Coronary Artery Disease	8	3.0	5222	41.4
	Cardiomyopathy	63	23.6	5779	45.8
	Eisenmenger's Syndrome/Congenital	193	72.3	933	7.4
	Valvular Heart Disease	0	0.0	476	3.8
	Other Diagnosis	3	1.1	183	1.4
	Not Reported	0	0.0	34	0.3
<b>Medical Condition at Transplant</b>	Not Hospitalized	85	31.8	5606	44.4
	Hospitalized	5	1.9	986	7.8
	In ICU	177	66.3	6019	47.7
	Not Reported	0	0.0	16	0.1
<b>Cold Ischemia Time</b>	Up to 2 hrs	36	13.5	3458	27.4
	> 2 - 2.5 hrs	16	6.0	2271	18.0
	> 2.5 - 3 hrs	28	10.5	2408	19.1
	> 3 - 3.5 hrs	27	10.1	1949	15.4
	> 3.5 hrs	160	59.9	2453	19.4
	Not Reported	0	0.0	88	0.7
<b>Year of Transplant</b>	1988	26	9.7	1649	13.1
	1989	40	15.0	1677	13.3
	1990	43	16.1	2071	16.4
	1991	66	24.7	2098	16.6
	1992	46	17.2	2145	17.0
	1993	35	13.1	2266	17.9
	1994	11	4.1	721	5.7

Source: UNOS OPTN/Scientific Registry data.



## Heart Transplants: January 1, 1988 - April 30, 1994

Survival Report for California Pacific Medical Center - San Francisco CA  
Provider Number 050047 (CAPM)Graft Survival

	Era 1: 1/1/88-4/30/92			Era 2: 5/1/92-4/30/94			Overall: 1/1/88-4/30/94						
Time Point	No. of TX	Act. Rate (%)	Exp. Rate (%)	No. of TX	Act. Rate (%)	Exp. Rate (%)	No. of TX	No. <sup>1</sup> w/CFU	No. Failed	Act. Rate (%)	Exp. Rate (%)	Diff. (%)	p- <sup>2</sup> value
1 Month	117	98.3	91.2	40	95.0	91.7	157	157	4	97.5	91.3	6.1	<0.01*
1 Year	117	90.6	80.8	40	87.5	81.5	157	157	16	89.8	81.0	8.9	<0.01*
Cond. <sup>3</sup> 3 Years	106	91.5	89.1				106	104	9	91.5	89.1	2.3	0.43
3 Years <sup>3</sup>		82.9	72.0										

Patient Survival

	Era 1: 1/1/88-4/30/92			Era 2: 5/1/92-4/30/94			Overall: 1/1/88-4/30/94						
Time Point	No. of Pts. <sup>4</sup>	Act. Rate (%)	Exp. Rate (%)	No. of Pts. <sup>4</sup>	Act. Rate (%)	Exp. Rate (%)	No. of Pts. <sup>4</sup>	No. <sup>1,5</sup> w/CFU	No. <sup>5</sup> Died	Act. Rate (%)	Exp. Rate (%)	Diff. (%)	p- <sup>2</sup> value
1 Month	116	98.3	91.7	40	95.0	92.2	156	156.0	4.0	97.4	91.8	5.6	<0.01*
1 Year	116	90.5	81.5	40	87.5	82.2	156	156.0	16.0	89.7	81.7	8.1	<0.01*
Cond. <sup>3</sup> 3 Years	105	93.2	89.8				105	102.0	7.0	93.2	89.8	3.4	0.24
3 Years <sup>3</sup>		84.4	73.2										

Notes: <sup>1</sup> No. with complete follow-up (CFU) is the total of the number of patients (grafts) whose status was known during the specified time interval.

<sup>2</sup> A p-value followed by an \* indicates that the difference is statistically significant at the 0.05 level.

<sup>3</sup> Conditional 3 year survival rates are the survival rates conditional on survival at 1 year. These are computed based on transplants between 1/1/88 and 4/30/92. Three year survival rates are computed by multiplying the 1 year and the conditional 3 year survival rates.

<sup>4</sup> The numbers of patients in Era 1 and Era 2 do not necessarily add up to the number of patients in the overall period, due to repeat transplants in different eras for some patients.

<sup>5</sup> No. w/CFU or No. Died may be fractional if patients received more than one transplant at the program.

Source: UNOS OPTN/Scientific Registry data.

**Heart Transplants: January 1, 1988 - April 30, 1994**  
**Donor and Recipient Characteristics: Program and National Frequencies**

**California Pacific Medical Center - San Francisco CA**  
**Provider Number 050047 (CAPM)**

		----- Program -----		--- National ---	
		Number	%	Number	%
<b>Total Transplants and Percentages</b>		<b>157</b>	<b>100.0</b>	<b>12627</b>	<b>100.0</b>
<b>Donor Age</b>	0-5	0	0.0	799	6.3
	6-10	0	0.0	274	2.2
	11-17	19	12.1	2029	16.1
	18-49	127	80.9	8923	70.7
	50-64	11	7.0	589	4.7
	65+	0	0.0	12	0.1
	Not Reported	0	0.0	1	0.0
<b>Donor Gender</b>	Female	41	26.1	3728	29.5
	Male	116	73.9	8899	70.5
<b>Donor Race</b>	White	123	78.3	10036	79.5
	Black	5	3.2	1263	10.0
	Hispanic	25	15.9	1143	9.1
	Asian	4	2.5	90	0.7
	Other	0	0.0	87	0.7
	Not Reported	0	0.0	8	0.1
<b>Recipient Age</b>	<1	0	0.0	549	4.3
	1-10	0	0.0	431	3.4
	11-17	0	0.0	358	2.8
	18-49	60	38.2	4493	35.6
	50-64	85	54.1	6373	50.5
	65+	12	7.6	423	3.3
<b>Recipient Gender</b>	Female	25	15.9	2761	21.9
	Male	132	84.1	9866	78.1
<b>Recipient Race</b>	White	127	80.9	10504	83.2
	Black	10	6.4	1206	9.6
	Hispanic	9	5.7	570	4.5
	Asian	6	3.8	125	1.0
	Other	5	3.2	216	1.7
	Not Reported	0	0.0	6	0.0

		----- Program -----		--- National ---	
		Number	%	Number	%
<b>Previous Heart Transplant</b>	No	155	98.7	12231	96.9
	Yes	2	1.3	344	2.7
	Not Reported	0	0.0	52	0.4
<b>On Ventilator at Transplant</b>	No	151	96.2	11892	94.2
	Yes	5	3.2	663	5.3
	Not Reported	1	0.6	72	0.6
<b>On VAD at Transplant</b>	No	146	93.0	12187	96.5
	Yes	10	6.4	366	2.9
	Not Reported	1	0.6	74	0.6
<b>On IABP at Transplant</b>	No	147	93.6	11754	93.1
	Yes	9	5.7	801	6.3
	Not Reported	1	0.6	72	0.6
<b>Diagnosis at Transplant</b>	Coronary Artery Disease	70	44.6	5222	41.4
	Cardiomyopathy	73	46.5	5779	45.8
	Eisenmenger's Syndrome/Congenital	2	1.3	933	7.4
	Valvular Heart Disease	10	6.4	476	3.8
	Other Diagnosis	2	1.3	183	1.4
	Not Reported	0	0.0	34	0.3
<b>Medical Condition at Transplant</b>	Not Hospitalized	74	47.1	5606	44.4
	Hospitalized	4	2.5	986	7.8
	In ICU	79	50.3	6019	47.7
	Not Reported	0	0.0	16	0.1
<b>Cold Ischemia Time</b>	Up to 2 hrs	6	3.8	3458	27.4
	> 2 - 2.5 hrs	18	11.5	2271	18.0
	> 2.5 - 3 hrs	35	22.3	2408	19.1
	> 3 - 3.5 hrs	44	28.0	1949	15.4
	> 3.5 hrs	54	34.4	2453	19.4
	Not Reported	0	0.0	88	0.7
<b>Year of Transplant</b>	1988	30	19.1	1649	13.1
	1989	28	17.8	1677	13.3
	1990	25	15.9	2071	16.4
	1991	26	16.6	2098	16.6
	1992	23	14.6	2145	17.0
	1993	17	10.8	2266	17.9
	1994	8	5.1	721	5.7

Source: UNOS OPTN/Scientific Registry data.

## Heart Transplants: January 1, 1988 - April 30, 1994

Survival Report for Hoag Memorial Hospital Presbyterian - Newport Beach CA  
Provider Number 050224 (CARZ)Graft Survival

	Era 1: 1/1/88-4/30/92			Era 2: 5/1/92-4/30/94			Overall: 1/1/88-4/30/94						
Time Point	No. of TX	Act. Rate (%)	Exp. Rate (%)	No. of TX	Act. Rate (%)	Exp. Rate (%)	No. of TX	No. <sup>1</sup> w/CFU	No. Failed	Act. Rate (%)	Exp. Rate (%)	Diff. (%)	p- <sup>2</sup> value
1 Month	26	96.2	93.6	9	100.0	94.4	35	35	1	97.1	93.8	3.3	0.41
1 Year	26	76.9	83.6	9	77.8	83.5	35	35	8	77.1	83.6	-6.5	0.30
Cond. <sup>3</sup> 3 Years	20	85.0	90.5				20	20	3	85.0	90.5	-5.5	0.40
3 Years <sup>3</sup>		65.4	75.7										

Patient Survival

	Era 1: 1/1/88-4/30/92			Era 2: 5/1/92-4/30/94			Overall: 1/1/88-4/30/94						
Time Point	No. of Pts. <sup>4</sup>	Act. Rate (%)	Exp. Rate (%)	No. of Pts. <sup>4</sup>	Act. Rate (%)	Exp. Rate (%)	No. of Pts. <sup>4</sup>	No. <sup>1,5</sup> w/CFU	No. <sup>5</sup> Died	Act. Rate (%)	Exp. Rate (%)	Diff. (%)	p- <sup>2</sup> value
1 Month	26	96.2	93.8	9	100.0	94.6	35	35.0	1.0	97.1	94.0	3.1	0.43
1 Year	26	76.9	84.1	9	77.8	84.0	35	35.0	8.0	77.1	84.1	-6.9	0.26
Cond. <sup>3</sup> 3 Years	20	85.0	90.8				20	20.0	3.0	85.0	90.8	-5.8	0.37
3 Years <sup>3</sup>		65.4	76.3										

Notes: <sup>1</sup> No. with complete follow-up (CFU) is the total of the number of patients (grafts) whose status was known during the specified time interval.

<sup>2</sup> A p-value followed by an \* indicates that the difference is statistically significant at the 0.05 level.

<sup>3</sup> Conditional 3 year survival rates are the survival rates conditional on survival at 1 year. These are computed based on transplants between 1/1/88 and 4/30/92. Three year survival rates are computed by multiplying the 1 year and the conditional 3 year survival rates.

<sup>4</sup> The numbers of patients in Era 1 and Era 2 do not necessarily add up to the number of patients in the overall period, due to repeat transplants in different eras for some patients.

<sup>5</sup> No. w/CFU or No. Died may be fractional if patients received more than one transplant at the program.

Source: UNOS OPTN/Scientific Registry data.

**Heart Transplants: January 1, 1988 - April 30, 1994**  
**Donor and Recipient Characteristics: Program and National Frequencies**

**Hoag Memorial Hospital Presbyterian - Newport Beach CA**  
**Provider Number 050224 (CARZ)**

		---- Program ----		--- National ---	
		Number	%	Number	%
<b>Total Transplants and Percentages</b>		<b>35</b>	<b>100.0</b>	<b>12627</b>	<b>100.0</b>
<b>Donor Age</b>	0-5	0	0.0	799	6.3
	6-10	0	0.0	274	2.2
	11-17	12	34.3	2029	16.1
	18-49	23	65.7	8923	70.7
	50-64	0	0.0	589	4.7
	65+	0	0.0	12	0.1
	Not Reported	0	0.0	1	0.0
<b>Donor Gender</b>	Female	3	8.6	3728	29.5
	Male	32	91.4	8899	70.5
<b>Donor Race</b>	White	22	62.9	10036	79.5
	Black	1	2.9	1263	10.0
	Hispanic	9	25.7	1143	9.1
	Asian	3	8.6	90	0.7
	Other	0	0.0	87	0.7
	Not Reported	0	0.0	8	0.1
<b>Recipient Age</b>	<1	0	0.0	549	4.3
	1-10	0	0.0	431	3.4
	11-17	0	0.0	358	2.8
	18-49	3	8.6	4493	35.6
	50-64	32	91.4	6373	50.5
	65+	0	0.0	423	3.3
<b>Recipient Gender</b>	Female	3	8.6	2761	21.9
	Male	32	91.4	9866	78.1
<b>Recipient Race</b>	White	32	91.4	10504	83.2
	Black	0	0.0	1206	9.6
	Hispanic	2	5.7	570	4.5
	Asian	1	2.9	125	1.0
	Other	0	0.0	216	1.7
	Not Reported	0	0.0	6	0.0

		----- Program -----		--- National ---	
		Number	%	Number	%
<b>Previous Heart Transplant</b>	No	35	100.0	12231	96.9
	Yes	0	0.0	344	2.7
	Not Reported	0	0.0	52	0.4
<b>On Ventilator at Transplant</b>	No	35	100.0	11892	94.2
	Yes	0	0.0	663	5.3
	Not Reported	0	0.0	72	0.6
<b>On VAD at Transplant</b>	No	35	100.0	12187	96.5
	Yes	0	0.0	366	2.9
	Not Reported	0	0.0	74	0.6
<b>On IABP at Transplant</b>	No	33	94.3	11754	93.1
	Yes	2	5.7	801	6.3
	Not Reported	0	0.0	72	0.6
<b>Diagnosis at Transplant</b>	Coronary Artery Disease	22	62.9	5222	41.4
	Cardiomyopathy	12	34.3	5779	45.8
	Eisenmenger's Syndrome/Congenital	0	0.0	933	7.4
	Valvular Heart Disease	0	0.0	476	3.8
	Other Diagnosis	1	2.9	183	1.4
	Not Reported	0	0.0	34	0.3
<b>Medical Condition at Transplant</b>	Not Hospitalized	19	54.3	5606	44.4
	Hospitalized	2	5.7	986	7.8
	In ICU	14	40.0	6019	47.7
	Not Reported	0	0.0	16	0.1
<b>Cold Ischemia Time</b>	Up to 2 hrs	7	20.0	3458	27.4
	> 2 - 2.5 hrs	10	28.6	2271	18.0
	> 2.5 - 3 hrs	12	34.3	2408	19.1
	> 3 - 3.5 hrs	5	14.3	1949	15.4
	> 3.5 hrs	1	2.9	2453	19.4
	Not Reported	0	0.0	88	0.7
<b>Year of Transplant</b>	1988	7	20.0	1649	13.1
	1989	6	17.1	1677	13.3
	1990	6	17.1	2071	16.4
	1991	6	17.1	2098	16.6
	1992	6	17.1	2145	17.0
	1993	4	11.4	2266	17.9
	1994	0	0.0	721	5.7

Source: UNOS OPTN/Scientific Registry data.



## Heart Transplants: January 1, 1988 - April 30, 1994

Survival Report for UCSD Medical Center - San Diego CA  
Provider Number 050025 (CASD)Graft Survival

	Era 1: 1/1/88-4/30/92			Era 2: 5/1/92-4/30/94			Overall: 1/1/88-4/30/94						
Time Point	No. of TX	Act. Rate (%)	Exp. Rate (%)	No. of TX	Act. Rate (%)	Exp. Rate (%)	No. of TX	No. <sup>1</sup> w/CFU	No. Failed	Act. Rate (%)	Exp. Rate (%)	Diff. (%)	p- <sup>2</sup> value
1 Month	25	100.0	92.2	22	100.0	91.9	47	43	0	100.0	92.1	7.9	0.05*
1 Year	25	96.0	82.3	22	100.0	81.9	47	42	1	97.7	82.2	15.5	<0.01*
Cond. <sup>3</sup> 3 Years	24	91.3	89.4				24	22	2	91.3	89.4	1.9	0.76
3 Years <sup>3</sup>		87.7	73.6										

Patient Survival

	Era 1: 1/1/88-4/30/92			Era 2: 5/1/92-4/30/94			Overall: 1/1/88-4/30/94						
Time Point	No. of Pts. <sup>4</sup>	Act. Rate (%)	Exp. Rate (%)	No. of Pts. <sup>4</sup>	Act. Rate (%)	Exp. Rate (%)	No. of Pts. <sup>4</sup>	No. <sup>1,5</sup> w/CFU	No. <sup>5</sup> Died	Act. Rate (%)	Exp. Rate (%)	Diff. (%)	p- <sup>2</sup> value
1 Month	25	100.0	92.5	22	100.0	92.2	47	43.0	0.0	100.0	92.4	7.6	0.05
1 Year	25	96.0	82.8	22	100.0	82.3	47	42.0	1.0	97.7	82.6	15.1	<0.01*
Cond. <sup>3</sup> 3 Years	24	91.3	90.0				24	22.0	2.0	91.3	90.0	1.4	0.83
3 Years <sup>3</sup>		87.7	74.5										

Notes: <sup>1</sup> No. with complete follow-up (CFU) is the total of the number of patients (grafts) whose status was known during the specified time interval.

<sup>2</sup> A p-value followed by an \* indicates that the difference is statistically significant at the 0.05 level.

<sup>3</sup> Conditional 3 year survival rates are the survival rates conditional on survival at 1 year. These are computed based on transplants between 1/1/88 and 4/30/92. Three year survival rates are computed by multiplying the 1 year and the conditional 3 year survival rates.

<sup>4</sup> The numbers of patients in Era 1 and Era 2 do not necessarily add up to the number of patients in the overall period, due to repeat transplants in different eras for some patients.

<sup>5</sup> No. w/CFU or No. Died may be fractional if patients received more than one transplant at the program.

Source: UNOS OPTN/Scientific Registry data.

**Heart Transplants: January 1, 1988 - April 30, 1994**  
**Donor and Recipient Characteristics: Program and National Frequencies**

**UCSD Medical Center - San Diego CA**  
**Provider Number 050025 (CASD)**

		----- Program -----		--- National ---	
		Number	%	Number	%
<b>Total Transplants and Percentages</b>		<b>47</b>	<b>100.0</b>	<b>12627</b>	<b>100.0</b>
<b>Donor Age</b>	0-5	0	0.0	799	6.3
	6-10	0	0.0	274	2.2
	11-17	3	6.4	2029	16.1
	18-49	41	87.2	8923	70.7
	50-64	3	6.4	589	4.7
	65+	0	0.0	12	0.1
	Not Reported	0	0.0	1	0.0
<b>Donor Gender</b>	Female	11	23.4	3728	29.5
	Male	36	76.6	8899	70.5
<b>Donor Race</b>	White	34	72.3	10036	79.5
	Black	3	6.4	1263	10.0
	Hispanic	10	21.3	1143	9.1
	Asian	0	0.0	90	0.7
	Other	0	0.0	87	0.7
	Not Reported	0	0.0	8	0.1
<b>Recipient Age</b>	<1	0	0.0	549	4.3
	1-10	0	0.0	431	3.4
	11-17	0	0.0	358	2.8
	18-49	11	23.4	4493	35.6
	50-64	33	70.2	6373	50.5
	65+	3	6.4	423	3.3
<b>Recipient Gender</b>	Female	8	17.0	2761	21.9
	Male	39	83.0	9866	78.1
<b>Recipient Race</b>	White	40	85.1	10504	83.2
	Black	0	0.0	1206	9.6
	Hispanic	2	4.3	570	4.5
	Asian	2	4.3	125	1.0
	Other	3	6.4	216	1.7
	Not Reported	0	0.0	6	0.0

		----- Program -----		--- National ---	
		Number	%	Number	%
<b>Previous Heart Transplant</b>	No	45	95.7	12231	96.9
	Yes	0	0.0	344	2.7
	Not Reported	2	4.3	52	0.4
<b>On Ventilator at Transplant</b>	No	46	97.9	11892	94.2
	Yes	1	2.1	663	5.3
	Not Reported	0	0.0	72	0.6
<b>On VAD at Transplant</b>	No	47	100.0	12187	96.5
	Yes	0	0.0	366	2.9
	Not Reported	0	0.0	74	0.6
<b>On IABP at Transplant</b>	No	45	95.7	11754	93.1
	Yes	2	4.3	801	6.3
	Not Reported	0	0.0	72	0.6
<b>Diagnosis at Transplant</b>	Coronary Artery Disease	25	53.2	5222	41.4
	Cardiomyopathy	18	38.3	5779	45.8
	Eisenmenger's Syndrome/Congenital	0	0.0	933	7.4
	Valvular Heart Disease	4	8.5	476	3.8
	Other Diagnosis	0	0.0	183	1.4
	Not Reported	0	0.0	34	0.3
<b>Medical Condition at Transplant</b>	Not Hospitalized	23	48.9	5606	44.4
	Hospitalized	0	0.0	986	7.8
	In ICU	24	51.1	6019	47.7
	Not Reported	0	0.0	16	0.1
<b>Cold Ischemia Time</b>	Up to 2 hrs	28	59.6	3458	27.4
	> 2 - 2.5 hrs	8	17.0	2271	18.0
	> 2.5 - 3 hrs	7	14.9	2408	19.1
	> 3 - 3.5 hrs	0	0.0	1949	15.4
	> 3.5 hrs	4	8.5	2453	19.4
	Not Reported	0	0.0	88	0.7
<b>Year of Transplant</b>	1988	0	0.0	1649	13.1
	1989	0	0.0	1677	13.3
	1990	9	19.1	2071	16.4
	1991	11	23.4	2098	16.6
	1992	11	23.4	2145	17.0
	1993	9	19.1	2266	17.9
	1994	7	14.9	721	5.7

Source: UNOS OPTN/Scientific Registry data.

## Heart Transplants: January 1, 1988 - April 30, 1994

Survival Report for UCSF Medical Center - San Francisco CA  
Provider Number 050454 (CASF)Graft Survival

	Era 1: 1/1/88-4/30/92			Era 2: 5/1/92-4/30/94			Overall: 1/1/88-4/30/94						
Time Point	No. of TX	Act. Rate (%)	Exp. Rate (%)	No. of TX	Act. Rate (%)	Exp. Rate (%)	No. of TX	No. <sup>1</sup> w/CFU	No. Failed	Act. Rate (%)	Exp. Rate (%)	Diff. (%)	p- <sup>2</sup> value
1 Month	42	92.9	92.1	21	81.0	91.4	63	63	7	88.9	91.9	-3.0	0.38
1 Year	42	83.3	81.7	21	71.4	81.1	63	63	13	79.4	81.5	-2.1	0.66
Cond. <sup>3</sup> 3 Years	35	91.4	88.3				35	35	3	91.4	88.3	3.1	0.56
3 Years <sup>3</sup>		76.2	72.1										

Patient Survival

	Era 1: 1/1/88-4/30/92			Era 2: 5/1/92-4/30/94			Overall: 1/1/88-4/30/94						
Time Point	No. of Pts. <sup>4</sup>	Act. Rate (%)	Exp. Rate (%)	No. of Pts. <sup>4</sup>	Act. Rate (%)	Exp. Rate (%)	No. of Pts. <sup>4</sup>	No. <sup>1,5</sup> w/CFU	No. <sup>5</sup> Died	Act. Rate (%)	Exp. Rate (%)	Diff. (%)	p- <sup>2</sup> value
1 Month	42	92.9	92.5	21	81.0	92.0	63	63.0	7.0	88.9	92.3	-3.4	0.30
1 Year	42	83.3	82.4	21	71.4	81.8	63	63.0	13.0	79.4	82.2	-2.8	0.55
Cond. <sup>3</sup> 3 Years	35	91.4	89.0				35	35.0	3.0	91.4	89.0	2.4	0.65
3 Years <sup>3</sup>		76.2	73.3										

Notes: <sup>1</sup> No. with complete follow-up (CFU) is the total of the number of patients (grafts) whose status was known during the specified time interval.

<sup>2</sup> A p-value followed by an \* indicates that the difference is statistically significant at the 0.05 level.

<sup>3</sup> Conditional 3 year survival rates are the survival rates conditional on survival at 1 year. These are computed based on transplants between 1/1/88 and 4/30/92. Three year survival rates are computed by multiplying the 1 year and the conditional 3 year survival rates.

<sup>4</sup> The numbers of patients in Era 1 and Era 2 do not necessarily add up to the number of patients in the overall period, due to repeat transplants in different eras for some patients.

<sup>5</sup> No. w/CFU or No. Died may be fractional if patients received more than one transplant at the program.

Source: UNOS OPTN/Scientific Registry data.

**Heart Transplants: January 1, 1988 - April 30, 1994**  
**Donor and Recipient Characteristics: Program and National Frequencies**

**UCSF Medical Center - San Francisco CA**  
**Provider Number 050454 (CASf)**

		----- Program -----		--- National ---	
		Number	%	Number	%
<b>Total Transplants and Percentages</b>		<b>63</b>	<b>100.0</b>	<b>12627</b>	<b>100.0</b>
<b>Donor Age</b>	0-5	0	0.0	799	6.3
	6-10	1	1.6	274	2.2
	11-17	6	9.5	2029	16.1
	18-49	45	71.4	8923	70.7
	50-64	11	17.5	589	4.7
	65+	0	0.0	12	0.1
	Not Reported	0	0.0	1	0.0
<b>Donor Gender</b>	Female	22	34.9	3728	29.5
	Male	41	65.1	8899	70.5
<b>Donor Race</b>	White	45	71.4	10036	79.5
	Black	4	6.3	1263	10.0
	Hispanic	13	20.6	1143	9.1
	Asian	1	1.6	90	0.7
	Other	0	0.0	87	0.7
	Not Reported	0	0.0	8	0.1
<b>Recipient Age</b>	<1	0	0.0	549	4.3
	1-10	0	0.0	431	3.4
	11-17	0	0.0	358	2.8
	18-49	28	44.4	4493	35.6
	50-64	34	54.0	6373	50.5
	65+	1	1.6	423	3.3
<b>Recipient Gender</b>	Female	15	23.8	2761	21.9
	Male	48	76.2	9866	78.1
<b>Recipient Race</b>	White	38	60.3	10504	83.2
	Black	11	17.5	1206	9.6
	Hispanic	4	6.3	570	4.5
	Asian	5	7.9	125	1.0
	Other	5	7.9	216	1.7
	Not Reported	0	0.0	6	0.0

		----- Program -----		--- National ---	
		Number	%	Number	%
<b>Previous Heart Transplant</b>	No	63	100.0	12231	96.9
	Yes	0	0.0	344	2.7
	Not Reported	0	0.0	52	0.4
<b>On Ventilator at Transplant</b>	No	63	100.0	11892	94.2
	Yes	0	0.0	663	5.3
	Not Reported	0	0.0	72	0.6
<b>On VAD at Transplant</b>	No	61	96.8	12187	96.5
	Yes	2	3.2	366	2.9
	Not Reported	0	0.0	74	0.6
<b>On IABP at Transplant</b>	No	63	100.0	11754	93.1
	Yes	0	0.0	801	6.3
	Not Reported	0	0.0	72	0.6
<b>Diagnosis at Transplant</b>	Coronary Artery Disease	31	49.2	5222	41.4
	Cardiomyopathy	29	46.0	5779	45.8
	Eisenmenger's Syndrome/Congenital	0	0.0	933	7.4
	Valvular Heart Disease	2	3.2	476	3.8
	Other Diagnosis	1	1.6	183	1.4
	Not Reported	0	0.0	34	0.3
<b>Medical Condition at Transplant</b>	Not Hospitalized	28	44.4	5606	44.4
	Hospitalized	3	4.8	986	7.8
	In ICU	32	50.8	6019	47.7
	Not Reported	0	0.0	16	0.1
<b>Cold Ischemia Time</b>	Up to 2 hrs	5	7.9	3458	27.4
	> 2 - 2.5 hrs	9	14.3	2271	18.0
	> 2.5 - 3 hrs	19	30.2	2408	19.1
	> 3 - 3.5 hrs	13	20.6	1949	15.4
	> 3.5 hrs	17	27.0	2453	19.4
	Not Reported	0	0.0	88	0.7
<b>Year of Transplant</b>	1988	0	0.0	1649	13.1
	1989	9	14.3	1677	13.3
	1990	18	28.6	2071	16.4
	1991	12	19.0	2098	16.6
	1992	9	14.3	2145	17.0
	1993	15	23.8	2266	17.9
	1994	0	0.0	721	5.7

Source: UNOS OPTN/Scientific Registry data.



## Heart Transplants: January 1, 1988 - April 30, 1994

Survival Report for Sutter Memorial Hospital - Sacramento CA  
Provider Number 050108 (CASG)Graft Survival

	Era 1: 1/1/88-4/30/92			Era 2: 5/1/92-4/30/94			Overall: 1/1/88-4/30/94						
Time Point	No. of TX	Act. Rate (%)	Exp. Rate (%)	No. of TX	Act. Rate (%)	Exp. Rate (%)	No. of TX	No. <sup>1</sup> w/CFU	No. Failed	Act. Rate (%)	Exp. Rate (%)	Diff. (%)	p- <sup>2</sup> value
1 Month	24	100.0	94.7	16	100.0	94.6	40	40	0	100.0	94.6	5.4	0.13
1 Year	24	95.8	86.2	16	100.0	86.2	40	40	1	97.5	86.2	11.3	0.04*
Cond. <sup>3</sup> 3 Years	23	87.0	90.8				23	23	3	87.0	90.8	-3.8	0.52
3 Years <sup>3</sup>		83.3	78.3										

Patient Survival

	Era 1: 1/1/88-4/30/92			Era 2: 5/1/92-4/30/94			Overall: 1/1/88-4/30/94						
Time Point	No. of Pts. <sup>4</sup>	Act. Rate (%)	Exp. Rate (%)	No. of Pts. <sup>4</sup>	Act. Rate (%)	Exp. Rate (%)	No. of Pts. <sup>4</sup>	No. <sup>1,5</sup> w/CFU	No. <sup>5</sup> Died	Act. Rate (%)	Exp. Rate (%)	Diff. (%)	p- <sup>2</sup> value
1 Month	24	100.0	94.9	16	100.0	94.8	40	40.0	0.0	100.0	94.9	5.1	0.14
1 Year	24	95.8	86.8	16	100.0	86.6	40	40.0	1.0	97.5	86.7	10.8	0.04*
Cond. <sup>3</sup> 3 Years	23	87.0	91.3				23	23.0	3.0	87.0	91.3	-4.3	0.46
3 Years <sup>3</sup>		83.3	79.2										

Notes: <sup>1</sup> No. with complete follow-up (CFU) is the total of the number of patients (grafts) whose status was known during the specified time interval.

<sup>2</sup> A p-value followed by an \* indicates that the difference is statistically significant at the 0.05 level.

<sup>3</sup> Conditional 3 year survival rates are the survival rates conditional on survival at 1 year. These are computed based on transplants between 1/1/88 and 4/30/92. Three year survival rates are computed by multiplying the 1 year and the conditional 3 year survival rates.

<sup>4</sup> The numbers of patients in Era 1 and Era 2 do not necessarily add up to the number of patients in the overall period, due to repeat transplants in different eras for some patients.

<sup>5</sup> No. w/CFU or No. Died may be fractional if patients received more than one transplant at the program.

Source: UNOS OPTN/Scientific Registry data.

**Heart Transplants: January 1, 1988 - April 30, 1994**  
**Donor and Recipient Characteristics: Program and National Frequencies**

**Sutter Memorial Hospital - Sacramento CA**  
**Provider Number 050108 (CASG)**

		----- Program -----		--- National ---	
		Number	%	Number	%
<b>Total Transplants and Percentages</b>		<b>40</b>	<b>100.0</b>	<b>12627</b>	<b>100.0</b>
<b>Donor Age</b>	0-5	0	0.0	799	6.3
	6-10	0	0.0	274	2.2
	11-17	5	12.5	2029	16.1
	18-49	34	85.0	8923	70.7
	50-64	1	2.5	589	4.7
	65+	0	0.0	12	0.1
	Not Reported	0	0.0	1	0.0
<b>Donor Gender</b>	Female	5	12.5	3728	29.5
	Male	35	87.5	8899	70.5
<b>Donor Race</b>	White	32	80.0	10036	79.5
	Black	4	10.0	1263	10.0
	Hispanic	4	10.0	1143	9.1
	Asian	0	0.0	90	0.7
	Other	0	0.0	87	0.7
	Not Reported	0	0.0	8	0.1
<b>Recipient Age</b>	<1	0	0.0	549	4.3
	1-10	0	0.0	431	3.4
	11-17	0	0.0	358	2.8
	18-49	18	45.0	4493	35.6
	50-64	20	50.0	6373	50.5
	65+	2	5.0	423	3.3
<b>Recipient Gender</b>	Female	11	27.5	2761	21.9
	Male	29	72.5	9866	78.1
<b>Recipient Race</b>	White	39	97.5	10504	83.2
	Black	0	0.0	1206	9.6
	Hispanic	1	2.5	570	4.5
	Asian	0	0.0	125	1.0
	Other	0	0.0	216	1.7
	Not Reported	0	0.0	6	0.0

		----- Program -----		--- National ---	
		Number	%	Number	%
<b>Previous Heart Transplant</b>	No	40	100.0	12231	96.9
	Yes	0	0.0	344	2.7
	Not Reported	0	0.0	52	0.4
<b>On Ventilator at Transplant</b>	No	39	97.5	11892	94.2
	Yes	0	0.0	663	5.3
	Not Reported	1	2.5	72	0.6
<b>On VAD at Transplant</b>	No	39	97.5	12187	96.5
	Yes	0	0.0	366	2.9
	Not Reported	1	2.5	74	0.6
<b>On IABP at Transplant</b>	No	39	97.5	11754	93.1
	Yes	0	0.0	801	6.3
	Not Reported	1	2.5	72	0.6
<b>Diagnosis at Transplant</b>	Coronary Artery Disease	20	50.0	5222	41.4
	Cardiomyopathy	20	50.0	5779	45.8
	Eisenmenger's Syndrome/Congenital	0	0.0	933	7.4
	Valvular Heart Disease	0	0.0	476	3.8
	Other Diagnosis	0	0.0	183	1.4
	Not Reported	0	0.0	34	0.3
<b>Medical Condition at Transplant</b>	Not Hospitalized	19	47.5	5606	44.4
	Hospitalized	11	27.5	986	7.8
	In ICU	10	25.0	6019	47.7
	Not Reported	0	0.0	16	0.1
<b>Cold Ischemia Time</b>	Up to 2 hrs	31	77.5	3458	27.4
	> 2 - 2.5 hrs	4	10.0	2271	18.0
	> 2.5 - 3 hrs	4	10.0	2408	19.1
	> 3 - 3.5 hrs	1	2.5	1949	15.4
	> 3.5 hrs	0	0.0	2453	19.4
	Not Reported	0	0.0	88	0.7
<b>Year of Transplant</b>	1988	0	0.0	1649	13.1
	1989	9	22.5	1677	13.3
	1990	4	10.0	2071	16.4
	1991	8	20.0	2098	16.6
	1992	9	22.5	2145	17.0
	1993	7	17.5	2266	17.9
	1994	3	7.5	721	5.7

Source: UNOS OPTN/Scientific Registry data.

## Heart Transplants: January 1, 1988 - April 30, 1994

Survival Report for Sharp Memorial Hospital - San Diego CA  
Provider Number 050100 (CASH)Graft Survival

	Era 1: 1/1/88-4/30/92			Era 2: 5/1/92-4/30/94			Overall: 1/1/88-4/30/94						
Time Point	No. of TX	Act. Rate (%)	Exp. Rate (%)	No. of TX	Act. Rate (%)	Exp. Rate (%)	No. of TX	No. <sup>1</sup> w/CFU	No. Failed	Act. Rate (%)	Exp. Rate (%)	Diff. (%)	p- <sup>2</sup> value
1 Month	78	96.2	93.2	30	90.0	93.8	108	108	6	94.4	93.4	1.1	0.64
1 Year	78	89.7	82.6	30	79.7	83.7	108	107	14	87.0	82.9	4.0	0.25
Cond. <sup>3</sup> 3 Years	70	80.0	89.2				70	70	14	80.0	89.2	-9.2	0.01*
3 Years <sup>3</sup>		71.8	73.7										

Patient Survival

	Era 1: 1/1/88-4/30/92			Era 2: 5/1/92-4/30/94			Overall: 1/1/88-4/30/94						
Time Point	No. of Pts. <sup>4</sup>	Act. Rate (%)	Exp. Rate (%)	No. of Pts. <sup>4</sup>	Act. Rate (%)	Exp. Rate (%)	No. of Pts. <sup>4</sup>	No. <sup>1,5</sup> w/CFU	No. <sup>5</sup> Died	Act. Rate (%)	Exp. Rate (%)	Diff. (%)	p- <sup>2</sup> value
1 Month	76	96.1	93.7	30	90.0	94.1	106	106.0	6.0	94.3	93.8	0.5	0.82
1 Year	76	92.1	83.5	30	79.7	84.1	106	105.0	12.0	88.6	83.7	4.9	0.16
Cond. <sup>3</sup> 3 Years	70	80.0	89.6				70	70.0	14.0	80.0	89.6	-9.6	<0.01*
3 Years <sup>3</sup>		73.7	74.9										

Notes: <sup>1</sup> No. with complete follow-up (CFU) is the total of the number of patients (grafts) whose status was known during the specified time interval.

<sup>2</sup> A p-value followed by an \* indicates that the difference is statistically significant at the 0.05 level.

<sup>3</sup> Conditional 3 year survival rates are the survival rates conditional on survival at 1 year. These are computed based on transplants between 1/1/88 and 4/30/92. Three year survival rates are computed by multiplying the 1 year and the conditional 3 year survival rates.

<sup>4</sup> The numbers of patients in Era 1 and Era 2 do not necessarily add up to the number of patients in the overall period, due to repeat transplants in different eras for some patients.

<sup>5</sup> No. w/CFU or No. Died may be fractional if patients received more than one transplant at the program.

Source: UNOS OPTN/Scientific Registry data.

**Heart Transplants: January 1, 1988 - April 30, 1994**  
**Donor and Recipient Characteristics: Program and National Frequencies**

**Sharp Memorial Hospital - San Diego CA**  
**Provider Number 050100 (CASH)**

		---- Program ----		--- National ---	
		Number	%	Number	%
<b>Total Transplants and Percentages</b>		<b>108</b>	<b>100.0</b>	<b>12627</b>	<b>100.0</b>
<b>Donor Age</b>	0-5	0	0.0	799	6.3
	6-10	1	0.9	274	2.2
	11-17	19	17.6	2029	16.1
	18-49	86	79.6	8923	70.7
	50-64	2	1.9	589	4.7
	65+	0	0.0	12	0.1
	Not Reported	0	0.0	1	0.0
<b>Donor Gender</b>	Female	26	24.1	3728	29.5
	Male	82	75.9	8899	70.5
<b>Donor Race</b>	White	72	66.7	10036	79.5
	Black	5	4.6	1263	10.0
	Hispanic	25	23.1	1143	9.1
	Asian	4	3.7	90	0.7
	Other	2	1.9	87	0.7
	Not Reported	0	0.0	8	0.1
<b>Recipient Age</b>	<1	1	0.9	549	4.3
	1-10	0	0.0	431	3.4
	11-17	0	0.0	358	2.8
	18-49	27	25.0	4493	35.6
	50-64	68	63.0	6373	50.5
	65+	12	11.1	423	3.3
<b>Recipient Gender</b>	Female	23	21.3	2761	21.9
	Male	85	78.7	9866	78.1
<b>Recipient Race</b>	White	89	82.4	10504	83.2
	Black	8	7.4	1206	9.6
	Hispanic	6	5.6	570	4.5
	Asian	2	1.9	125	1.0
	Other	3	2.8	216	1.7
	Not Reported	0	0.0	6	0.0

		----- Program -----		--- National ---	
		Number	%	Number	%
<b>Previous Heart Transplant</b>	No	104	96.3	12231	96.9
	Yes	4	3.7	344	2.7
	Not Reported	0	0.0	52	0.4
<b>On Ventilator at Transplant</b>	No	106	98.1	11892	94.2
	Yes	2	1.9	663	5.3
	Not Reported	0	0.0	72	0.6
<b>On VAD at Transplant</b>	No	99	91.7	12187	96.5
	Yes	9	8.3	366	2.9
	Not Reported	0	0.0	74	0.6
<b>On IABP at Transplant</b>	No	104	96.3	11754	93.1
	Yes	4	3.7	801	6.3
	Not Reported	0	0.0	72	0.6
<b>Diagnosis at Transplant</b>	Coronary Artery Disease	2	1.9	5222	41.4
	Cardiomyopathy	100	92.6	5779	45.8
	Eisenmenger's Syndrome/Congenital	0	0.0	933	7.4
	Valvular Heart Disease	5	4.6	476	3.8
	Other Diagnosis	1	0.9	183	1.4
	Not Reported	0	0.0	34	0.3
<b>Medical Condition at Transplant</b>	Not Hospitalized	66	61.1	5606	44.4
	Hospitalized	0	0.0	986	7.8
	In ICU	42	38.9	6019	47.7
	Not Reported	0	0.0	16	0.1
<b>Cold Ischemia Time</b>	Up to 2 hrs	72	66.7	3458	27.4
	> 2 - 2.5 hrs	11	10.2	2271	18.0
	> 2.5 - 3 hrs	10	9.3	2408	19.1
	> 3 - 3.5 hrs	6	5.6	1949	15.4
	> 3.5 hrs	9	8.3	2453	19.4
	Not Reported	0	0.0	88	0.7
<b>Year of Transplant</b>	1988	18	16.7	1649	13.1
	1989	20	18.5	1677	13.3
	1990	15	13.9	2071	16.4
	1991	18	16.7	2098	16.6
	1992	14	13.0	2145	17.0
	1993	18	16.7	2266	17.9
	1994	5	4.6	721	5.7

Source: UNOS OPTN/Scientific Registry data.



## Heart Transplants: January 1, 1988 - April 30, 1994

Survival Report for University of California-Davis Medical Center - Sacramento CA  
Provider Number 050599 (CASM)Graft Survival

	Era 1: 1/1/88-4/30/92			Era 2: 5/1/92-4/30/94			Overall: 1/1/88-4/30/94						
Time Point	No. of TX	Act. Rate (%)	Exp. Rate (%)	No. of TX	Act. Rate (%)	Exp. Rate (%)	No. of TX	No. <sup>1</sup> w/CFU	No. Failed	Act. Rate (%)	Exp. Rate (%)	Diff. (%)	p- <sup>2</sup> value
1 Month	2	100.0	96.0	3	100.0	94.2	5	5	0	100.0	94.9	5.1	0.79
1 Year	2	100.0	89.4	3	100.0	85.1	5	5	0	100.0	86.8	13.2	0.63
Cond. <sup>3</sup> 3 Years	2	100.0	91.3				2	2	0	100.0	91.3	8.7	0.84
3 Years <sup>3</sup>		100.0	81.6										

Patient Survival

	Era 1: 1/1/88-4/30/92			Era 2: 5/1/92-4/30/94			Overall: 1/1/88-4/30/94						
Time Point	No. of Pts. <sup>4</sup>	Act. Rate (%)	Exp. Rate (%)	No. of Pts. <sup>4</sup>	Act. Rate (%)	Exp. Rate (%)	No. of Pts. <sup>4</sup>	No. <sup>1,5</sup> w/CFU	No. <sup>5</sup> Died	Act. Rate (%)	Exp. Rate (%)	Diff. (%)	p- <sup>2</sup> value
1 Month	2	100.0	96.3	3	100.0	94.4	5	5.0	0.0	100.0	95.2	4.8	0.80
1 Year	2	100.0	90.0	3	100.0	85.5	5	5.0	0.0	100.0	87.3	12.7	0.63
Cond. <sup>3</sup> 3 Years	2	100.0	91.9				2	2.0	0.0	100.0	91.9	8.1	0.85
3 Years <sup>3</sup>		100.0	82.7										

Notes: <sup>1</sup> No. with complete follow-up (CFU) is the total of the number of patients (grafts) whose status was known during the specified time interval.

<sup>2</sup> A p-value followed by an \* indicates that the difference is statistically significant at the 0.05 level.

<sup>3</sup> Conditional 3 year survival rates are the survival rates conditional on survival at 1 year. These are computed based on transplants between 1/1/88 and 4/30/92. Three year survival rates are computed by multiplying the 1 year and the conditional 3 year survival rates.

<sup>4</sup> The numbers of patients in Era 1 and Era 2 do not necessarily add up to the number of patients in the overall period, due to repeat transplants in different eras for some patients.

<sup>5</sup> No. w/CFU or No. Died may be fractional if patients received more than one transplant at the program.

Source: UNOS OPTN/Scientific Registry data.

**Heart Transplants: January 1, 1988 - April 30, 1994**  
**Donor and Recipient Characteristics: Program and National Frequencies**

**University of California-Davis Medical Center - Sacramento CA**  
**Provider Number 050599 (CASM)**

		----- Program -----		--- National ---	
		Number	%	Number	%
<b>Total Transplants and Percentages</b>		<b>5</b>	<b>100.0</b>	<b>12627</b>	<b>100.0</b>
<b>Donor Age</b>	0-5	0	0.0	799	6.3
	6-10	0	0.0	274	2.2
	11-17	0	0.0	2029	16.1
	18-49	5	100.0	8923	70.7
	50-64	0	0.0	589	4.7
	65+	0	0.0	12	0.1
	Not Reported	0	0.0	1	0.0
<b>Donor Gender</b>	Female	0	0.0	3728	29.5
	Male	5	100.0	8899	70.5
<b>Donor Race</b>	White	4	80.0	10036	79.5
	Black	0	0.0	1263	10.0
	Hispanic	1	20.0	1143	9.1
	Asian	0	0.0	90	0.7
	Other	0	0.0	87	0.7
	Not Reported	0	0.0	8	0.1
<b>Recipient Age</b>	<1	0	0.0	549	4.3
	1-10	0	0.0	431	3.4
	11-17	0	0.0	358	2.8
	18-49	3	60.0	4493	35.6
	50-64	2	40.0	6373	50.5
	65+	0	0.0	423	3.3
<b>Recipient Gender</b>	Female	2	40.0	2761	21.9
	Male	3	60.0	9866	78.1
<b>Recipient Race</b>	White	3	60.0	10504	83.2
	Black	1	20.0	1206	9.6
	Hispanic	1	20.0	570	4.5
	Asian	0	0.0	125	1.0
	Other	0	0.0	216	1.7
	Not Reported	0	0.0	6	0.0

		----- Program -----		--- National ---	
		Number	%	Number	%
<b>Previous Heart Transplant</b>	No	5	100.0	12231	96.9
	Yes	0	0.0	344	2.7
	Not Reported	0	0.0	52	0.4
<b>On Ventilator at Transplant</b>	No	5	100.0	11892	94.2
	Yes	0	0.0	663	5.3
	Not Reported	0	0.0	72	0.6
<b>On VAD at Transplant</b>	No	5	100.0	12187	96.5
	Yes	0	0.0	366	2.9
	Not Reported	0	0.0	74	0.6
<b>On IABP at Transplant</b>	No	5	100.0	11754	93.1
	Yes	0	0.0	801	6.3
	Not Reported	0	0.0	72	0.6
<b>Diagnosis at Transplant</b>	Coronary Artery Disease	0	0.0	5222	41.4
	Cardiomyopathy	5	100.0	5779	45.8
	Eisenmenger's Syndrome/Congenital	0	0.0	933	7.4
	Valvular Heart Disease	0	0.0	476	3.8
	Other Diagnosis	0	0.0	183	1.4
	Not Reported	0	0.0	34	0.3
<b>Medical Condition at Transplant</b>	Not Hospitalized	1	20.0	5606	44.4
	Hospitalized	1	20.0	986	7.8
	In ICU	3	60.0	6019	47.7
	Not Reported	0	0.0	16	0.1
<b>Cold Ischemia Time</b>	Up to 2 hrs	4	80.0	3458	27.4
	> 2 - 2.5 hrs	0	0.0	2271	18.0
	> 2.5 - 3 hrs	0	0.0	2408	19.1
	> 3 - 3.5 hrs	1	20.0	1949	15.4
	> 3.5 hrs	0	0.0	2453	19.4
	Not Reported	0	0.0	88	0.7
<b>Year of Transplant</b>	1988	0	0.0	1649	13.1
	1989	0	0.0	1677	13.3
	1990	0	0.0	2071	16.4
	1991	1	20.0	2098	16.6
	1992	2	40.0	2145	17.0
	1993	2	40.0	2266	17.9
	1994	0	0.0	721	5.7

Source: UNOS OPTN/Scientific Registry data.

## Heart Transplants: January 1, 1988 - April 30, 1994

Survival Report for Stanford University Medical Center - Palo Alto CA  
Provider Number 050441 (CASU)Graft Survival

	Era 1: 1/1/88-4/30/92			Era 2: 5/1/92-4/30/94			Overall: 1/1/88-4/30/94						
Time Point	No. of TX	Act. Rate (%)	Exp. Rate (%)	No. of TX	Act. Rate (%)	Exp. Rate (%)	No. of TX	No. <sup>1</sup> w/CFU	No. Failed	Act. Rate (%)	Exp. Rate (%)	Diff. (%)	p- <sup>2</sup> value
1 Month	196	93.9	92.2	72	88.9	91.3	268	268	20	92.5	92.0	0.6	0.72
1 Year	196	80.6	81.7	72	69.4	80.2	268	268	60	77.6	81.3	-3.7	0.10
Cond. <sup>3</sup> 3 Years	158	88.5	89.4				158	155	18	88.5	89.4	-0.9	0.72
3 Years <sup>3</sup>		71.3	73.0										

Patient Survival

	Era 1: 1/1/88-4/30/92			Era 2: 5/1/92-4/30/94			Overall: 1/1/88-4/30/94						
Time Point	No. of Pts. <sup>4</sup>	Act. Rate (%)	Exp. Rate (%)	No. of Pts. <sup>4</sup>	Act. Rate (%)	Exp. Rate (%)	No. of Pts. <sup>4</sup>	No. <sup>1,5</sup> w/CFU	No. <sup>5</sup> Died	Act. Rate (%)	Exp. Rate (%)	Diff. (%)	p- <sup>2</sup> value
1 Month	193	94.5	92.6	69	91.1	92.2	259	259.0	16.5	93.6	92.5	1.1	0.47
1 Year	193	81.2	82.6	69	73.3	82.0	259	259.0	54.0	79.2	82.5	-3.3	0.14
Cond. <sup>3</sup> 3 Years	157	89.1	89.9				157	154.0	17.0	89.1	89.9	-0.9	0.72
3 Years <sup>3</sup>		72.3	74.3										

Notes: <sup>1</sup> No. with complete follow-up (CFU) is the total of the number of patients (grafts) whose status was known during the specified time interval.

<sup>2</sup> A p-value followed by an \* indicates that the difference is statistically significant at the 0.05 level.

<sup>3</sup> Conditional 3 year survival rates are the survival rates conditional on survival at 1 year. These are computed based on transplants between 1/1/88 and 4/30/92. Three year survival rates are computed by multiplying the 1 year and the conditional 3 year survival rates.

<sup>4</sup> The numbers of patients in Era 1 and Era 2 do not necessarily add up to the number of patients in the overall period, due to repeat transplants in different eras for some patients.

<sup>5</sup> No. w/CFU or No. Died may be fractional if patients received more than one transplant at the program.

Source: UNOS OPTN/Scientific Registry data.

**Heart Transplants: January 1, 1988 - April 30, 1994**  
**Donor and Recipient Characteristics: Program and National Frequencies**

**Stanford University Medical Center - Palo Alto CA**  
**Provider Number 050441 (CASU)**

		----- Program -----		--- National ---	
		Number	%	Number	%
<b>Total Transplants and Percentages</b>		<b>268</b>	<b>100.0</b>	<b>12627</b>	<b>100.0</b>
<b>Donor Age</b>	0-5	29	10.8	799	6.3
	6-10	9	3.4	274	2.2
	11-17	36	13.4	2029	16.1
	18-49	188	70.1	8923	70.7
	50-64	6	2.2	589	4.7
	65+	0	0.0	12	0.1
	Not Reported	0	0.0	1	0.0
<b>Donor Gender</b>	Female	68	25.4	3728	29.5
	Male	200	74.6	8899	70.5
<b>Donor Race</b>	White	198	73.9	10036	79.5
	Black	23	8.6	1263	10.0
	Hispanic	37	13.8	1143	9.1
	Asian	7	2.6	90	0.7
	Other	2	0.7	87	0.7
	Not Reported	1	0.4	8	0.1
<b>Recipient Age</b>	<1	17	6.3	549	4.3
	1-10	19	7.1	431	3.4
	11-17	19	7.1	358	2.8
	18-49	97	36.2	4493	35.6
	50-64	112	41.8	6373	50.5
	65+	4	1.5	423	3.3
<b>Recipient Gender</b>	Female	54	20.1	2761	21.9
	Male	214	79.9	9866	78.1
<b>Recipient Race</b>	White	207	77.2	10504	83.2
	Black	18	6.7	1206	9.6
	Hispanic	23	8.6	570	4.5
	Asian	9	3.4	125	1.0
	Other	10	3.7	216	1.7
	Not Reported	1	0.4	6	0.0

		----- Program -----		--- National ---	
		Number	%	Number	%
Previous Heart Transplant	No	245	91.4	12231	96.9
	Yes	21	7.8	344	2.7
	Not Reported	2	0.7	52	0.4
On Ventilator at Transplant	No	259	96.6	11892	94.2
	Yes	6	2.2	663	5.3
	Not Reported	3	1.1	72	0.6
On VAD at Transplant	No	257	95.9	12187	96.5
	Yes	8	3.0	366	2.9
	Not Reported	3	1.1	74	0.6
On IABP at Transplant	No	257	95.9	11754	93.1
	Yes	8	3.0	801	6.3
	Not Reported	3	1.1	72	0.6
Diagnosis at Transplant	Coronary Artery Disease	98	36.6	5222	41.4
	Cardiomyopathy	123	45.9	5779	45.8
	Eisenmenger's Syndrome Congenital	26	9.7	933	7.4
	Valvular Heart Disease	16	6.0	476	3.8
	Other Diagnosis	3	1.1	183	1.4
	Not Reported	2	0.7	34	0.3
Medical Condition at Transplant	Not Hospitalized	170	63.4	5606	44.4
	Hospitalized	24	9.0	986	7.8
	In ICU	74	27.6	6019	47.7
	Not Reported	0	0.0	16	0.1
Cold Ischemia Time	Up to 2 hrs	37	13.8	3458	27.4
	> 2 - 2.5 hrs	54	20.1	2271	18.0
	> 2.5 - 3 hrs	76	28.4	2408	19.1
	> 3 - 3.5 hrs	55	20.5	1949	15.4
	> 3.5 hrs	42	15.7	2453	19.4
	Not Reported	4	1.5	88	0.7
Year of Transplant	1988	37	13.8	1649	13.1
	1989	49	18.3	1677	13.3
	1990	49	18.3	2071	16.4
	1991	45	16.8	2098	16.6
	1992	41	15.3	2145	17.0
	1993	36	13.4	2266	17.9
	1994	11	4.1	721	5.7

Source: UNOS OPTN/Scientific Registry data.



## Heart Transplants: January 1, 1988 - April 30, 1994

Survival Report for St Vincent Medical Center - Los Angeles CA  
Provider Number 050502 (CASV)Graft Survival

	Era 1: 1/1/88-4/30/92			Era 2: 5/1/92-4/30/94			Overall: 1/1/88-4/30/94						
Time Point	No. of TX	Act. Rate (%)	Exp. Rate (%)	No. of TX	Act. Rate (%)	Exp. Rate (%)	No. of TX	No. <sup>1</sup> w/CFU	No. Failed	Act. Rate (%)	Exp. Rate (%)	Diff. (%)	p- <sup>2</sup> value
1 Month	25	100.0	91.0	24	87.5	91.0	49	49	3	93.9	91.0	2.9	0.47
1 Year	25	96.0	79.0	24	83.3	80.5	49	49	5	89.8	79.7	10.1	0.07
Cond. <sup>3</sup> 3 Years	24	75.0	87.7				24	24	6	75.0	87.7	-12.7	0.05
3 Years <sup>3</sup>		72.0	69.3										

Patient Survival

	Era 1: 1/1/88-4/30/92			Era 2: 5/1/92-4/30/94			Overall: 1/1/88-4/30/94						
Time Point	No. of Pts. <sup>4</sup>	Act. Rate (%)	Exp. Rate (%)	No. of Pts. <sup>4</sup>	Act. Rate (%)	Exp. Rate (%)	No. of Pts. <sup>4</sup>	No. <sup>1,5</sup> w/CFU	No. <sup>5</sup> Died	Act. Rate (%)	Exp. Rate (%)	Diff. (%)	p- <sup>2</sup> value
1 Month	25	100.0	91.3	24	87.5	91.3	49	49.0	3.0	93.9	91.3	2.6	0.51
1 Year	25	96.0	79.5	24	83.3	80.9	49	49.0	5.0	89.8	80.2	9.6	0.08
Cond. <sup>3</sup> 3 Years	24	75.0	88.2				24	24.0	6.0	75.0	88.2	-13.2	0.04*
3 Years <sup>3</sup>		72.0	70.1										

Notes: <sup>1</sup> No. with complete follow-up (CFU) is the total of the number of patients (grafts) whose status was known during the specified time interval.

<sup>2</sup> A p-value followed by an \* indicates that the difference is statistically significant at the 0.05 level.

<sup>3</sup> Conditional 3 year survival rates are the survival rates conditional on survival at 1 year. These are computed based on transplants between 1/1/88 and 4/30/92. Three year survival rates are computed by multiplying the 1 year and the conditional 3 year survival rates.

<sup>4</sup> The numbers of patients in Era 1 and Era 2 do not necessarily add up to the number of patients in the overall period, due to repeat transplants in different eras for some patients.

<sup>5</sup> No. w/CFU or No. Died may be fractional if patients received more than one transplant at the program.

Source: UNOS OPTN/Scientific Registry data.

**Heart Transplants: January 1, 1988 - April 30, 1994**  
**Donor and Recipient Characteristics: Program and National Frequencies**

**St Vincent Medical Center - Los Angeles CA**  
**Provider Number 050502 (CASV)**

		----- Program -----		--- National ---	
		Number	%	Number	%
<b>Total Transplants and Percentages</b>		<b>49</b>	<b>100.0</b>	<b>12627</b>	<b>100.0</b>
<b>Donor Age</b>	0-5	1	2.0	799	6.3
	6-10	0	0.0	274	2.2
	11-17	5	10.2	2029	16.1
	18-49	39	79.6	8923	70.7
	50-64	4	8.2	589	4.7
	65+	0	0.0	12	0.1
	Not Reported	0	0.0	1	0.0
<b>Donor Gender</b>	Female	14	28.6	3728	29.5
	Male	35	71.4	8899	70.5
<b>Donor Race</b>	White	35	71.4	10036	79.5
	Black	2	4.1	1263	10.0
	Hispanic	9	18.4	1143	9.1
	Asian	2	4.1	90	0.7
	Other	1	2.0	87	0.7
	Not Reported	0	0.0	8	0.1
<b>Recipient Age</b>	<1	0	0.0	549	4.3
	1-10	0	0.0	431	3.4
	11-17	0	0.0	358	2.8
	18-49	12	24.5	4493	35.6
	50-64	27	55.1	6373	50.5
	65+	10	20.4	423	3.3
<b>Recipient Gender</b>	Female	6	12.2	2761	21.9
	Male	43	87.8	9866	78.1
<b>Recipient Race</b>	White	30	61.2	10504	83.2
	Black	8	16.3	1206	9.6
	Hispanic	3	6.1	570	4.5
	Asian	6	12.2	125	1.0
	Other	2	4.1	216	1.7
	Not Reported	0	0.0	6	0.0

		----- Program -----		--- National ---	
		Number	%	Number	%
<b>Previous Heart Transplant</b>	No	49	100.0	12231	96.9
	Yes	0	0.0	344	2.7
	Not Reported	0	0.0	52	0.4
<b>On Ventilator at Transplant</b>	No	44	89.8	11892	94.2
	Yes	5	10.2	663	5.3
	Not Reported	0	0.0	72	0.6
<b>On VAD at Transplant</b>	No	49	100.0	12187	96.5
	Yes	0	0.0	366	2.9
	Not Reported	0	0.0	74	0.6
<b>On IABP at Transplant</b>	No	42	85.7	11754	93.1
	Yes	7	14.3	801	6.3
	Not Reported	0	0.0	72	0.6
<b>Diagnosis at Transplant</b>	Coronary Artery Disease	20	40.8	5222	41.4
	Cardiomyopathy	26	53.1	5779	45.8
	Eisenmenger's Syndrome/Congenital	1	2.0	933	7.4
	Valvular Heart Disease	2	4.1	476	3.8
	Other Diagnosis	0	0.0	183	1.4
	Not Reported	0	0.0	34	0.3
<b>Medical Condition at Transplant</b>	Not Hospitalized	26	53.1	5606	44.4
	Hospitalized	4	8.2	986	7.8
	In ICU	19	38.8	6019	47.7
	Not Reported	0	0.0	16	0.1
<b>Cold Ischemia Time</b>	Up to 2 hrs	6	12.2	3458	27.4
	> 2 - 2.5 hrs	11	22.4	2271	18.0
	> 2.5 - 3 hrs	7	14.3	2408	19.1
	> 3 - 3.5 hrs	5	10.2	1949	15.4
	> 3.5 hrs	7	14.3	2453	19.4
	Not Reported	13	26.5	88	0.7
<b>Year of Transplant</b>	1988	1	2.0	1649	13.1
	1989	10	20.4	1677	13.3
	1990	9	18.4	2071	16.4
	1991	2	4.1	2098	16.6
	1992	10	20.4	2145	17.0
	1993	12	24.5	2266	17.9
	1994	5	10.2	721	5.7

Source: UNOS OPTN/Scientific Registry data.

## Heart Transplants: January 1, 1988 - April 30, 1994

Survival Report for UCLA Medical Center - Los Angeles CA  
Provider Number 050262 (CAUC)Graft Survival

	Era 1: 1/1/88-4/30/92			Era 2: 5/1/92-4/30/94			Overall: 1/1/88-4/30/94						
Time Point	No. of TX	Act. Rate (%)	Exp. Rate (%)	No. of TX	Act. Rate (%)	Exp. Rate (%)	No. of TX	No. <sup>1</sup> w/CFU	No. Failed	Act. Rate (%)	Exp. Rate (%)	Diff. (%)	p- <sup>2</sup> value
1 Month	239	95.0	91.8	147	89.7	90.1	386	385	27	93.0	91.2	1.8	0.19
1 Year	239	83.8	81.6	147	72.8	78.6	386	376	77	79.7	80.4	-0.8	0.69
Cond. <sup>3</sup> 3 Years	196	84.4	88.7				196	191	30	84.4	88.7	-4.3	0.05*
3 Years <sup>3</sup>		70.8	72.4										

Patient Survival

	Era 1: 1/1/88-4/30/92			Era 2: 5/1/92-4/30/94			Overall: 1/1/88-4/30/94						
Time Point	No. of Pts. <sup>4</sup>	Act. Rate (%)	Exp. Rate (%)	No. of Pts. <sup>4</sup>	Act. Rate (%)	Exp. Rate (%)	No. of Pts. <sup>4</sup>	No. <sup>1,5</sup> w/CFU	No. <sup>5</sup> Died	Act. Rate (%)	Exp. Rate (%)	Diff. (%)	p- <sup>2</sup> value
1 Month	235	95.0	92.2	142	90.9	91.0	370	369.0	24.0	93.5	91.7	1.8	0.20
1 Year	235	83.7	82.4	142	76.3	80.1	370	360.0	69.0	81.0	81.6	-0.6	0.76
Cond. <sup>3</sup> 3 Years	193	86.8	89.3				193	187.0	25.0	86.8	89.3	-2.6	0.24
3 Years <sup>3</sup>		72.7	73.6										

Notes: <sup>1</sup> No. with complete follow-up (CFU) is the total of the number of patients (grafts) whose status was known during the specified time interval.

<sup>2</sup> A p-value followed by an \* indicates that the difference is statistically significant at the 0.05 level.

<sup>3</sup> Conditional 3 year survival rates are the survival rates conditional on survival at 1 year. These are computed based on transplants between 1/1/88 and 4/30/92. Three year survival rates are computed by multiplying the 1 year and the conditional 3 year survival rates.

<sup>4</sup> The numbers of patients in Era 1 and Era 2 do not necessarily add up to the number of patients in the overall period, due to repeat transplants in different eras for some patients.

<sup>5</sup> No. w/CFU or No. Died may be fractional if patients received more than one transplant at the program.

Source: UNOS OPTN/Scientific Registry data.

**Heart Transplants: January 1, 1988 - April 30, 1994**  
**Donor and Recipient Characteristics: Program and National Frequencies**

**UCLA Medical Center - Los Angeles CA**  
**Provider Number 050262 (CAUC)**

		----- Program -----		--- National ---	
		Number	%	Number	%
<b>Total Transplants and Percentages</b>		<b>386</b>	<b>100.0</b>	<b>12627</b>	<b>100.0</b>
<b>Donor Age</b>	0-5	11	2.8	799	6.3
	6-10	14	3.6	274	2.2
	11-17	76	19.7	2029	16.1
	18-49	267	69.2	8923	70.7
	50-64	17	4.4	589	4.7
	65+	1	0.3	12	0.1
	Not Reported	0	0.0	1	0.0
<b>Donor Gender</b>	Female	119	30.8	3728	29.5
	Male	267	69.2	8899	70.5
<b>Donor Race</b>	White	263	68.1	10036	79.5
	Black	20	5.2	1263	10.0
	Hispanic	91	23.6	1143	9.1
	Asian	8	2.1	90	0.7
	Other	3	0.8	87	0.7
	Not Reported	1	0.3	8	0.1
<b>Recipient Age</b>	<1	4	1.0	549	4.3
	1-10	20	5.2	431	3.4
	11-17	18	4.7	358	2.8
	18-49	125	32.4	4493	35.6
	50-64	199	51.6	6373	50.5
	65+	20	5.2	423	3.3
<b>Recipient Gender</b>	Female	103	26.7	2761	21.9
	Male	283	73.3	9866	78.1
<b>Recipient Race</b>	White	258	66.8	10504	83.2
	Black	29	7.5	1206	9.6
	Hispanic	49	12.7	570	4.5
	Asian	23	6.0	125	1.0
	Other	27	7.0	216	1.7
	Not Reported	0	0.0	6	0.0

		----- Program -----		--- National ---	
		Number	%	Number	%
<b>Previous Heart Transplant</b>	No	364	94.3	12231	96.9
	Yes	22	5.7	344	2.7
	Not Reported	0	0.0	52	0.4
<b>On Ventilator at Transplant</b>	No	373	96.6	11892	94.2
	Yes	13	3.4	663	5.3
	Not Reported	0	0.0	72	0.6
<b>On VAD at Transplant</b>	No	380	98.4	12187	96.5
	Yes	6	1.6	366	2.9
	Not Reported	0	0.0	74	0.6
<b>On IABP at Transplant</b>	No	372	96.4	11754	93.1
	Yes	14	3.6	801	6.3
	Not Reported	0	0.0	72	0.6
<b>Diagnosis at Transplant</b>	Coronary Artery Disease	196	50.8	5222	41.4
	Cardiomyopathy	132	34.2	5779	45.8
	Eisenmenger's Syndrome/Congenital	33	8.5	933	7.4
	Valvular Heart Disease	20	5.2	476	3.8
	Other Diagnosis	3	0.8	183	1.4
	Not Reported	2	0.5	34	0.3
<b>Medical Condition at Transplant</b>	Not Hospitalized	219	56.7	5606	44.4
	Hospitalized	22	5.7	986	7.8
	In ICU	145	37.6	6019	47.7
	Not Reported	0	0.0	16	0.1
<b>Cold Ischemia Time</b>	Up to 2 hrs	90	23.3	3458	27.4
	> 2 - 2.5 hrs	88	22.8	2271	18.0
	> 2.5 - 3 hrs	85	22.0	2408	19.1
	> 3 - 3.5 hrs	44	11.4	1949	15.4
	> 3.5 hrs	78	20.2	2453	19.4
	Not Reported	1	0.3	88	0.7
<b>Year of Transplant</b>	1988	28	7.3	1649	13.1
	1989	50	13.0	1677	13.3
	1990	66	17.1	2071	16.4
	1991	72	18.7	2098	16.6
	1992	72	18.7	2145	17.0
	1993	80	20.7	2266	17.9
	1994	18	4.7	721	5.7

Source: UNOS OPTN/Scientific Registry data.



**Response From: University of California at Los Angeles Medical Center  
10833 Le Conte Avenue, Los Angeles, CA 90095  
Provider Number 050262 (CAUC)**

May 12, 1997

UCLA Medical Center's Heart Transplant Program performed 386 heart transplant surgeries between January 1, 1988 to April 30, 1994 which is one of the largest number of transplants performed in the United States and the world. Our program has a long standing commitment to high quality patient care especially among extremely complex and high risk patients. The UNOS Survival Statistics for our heart transplant program represent both our pediatric and adult experience in heart transplantation. Our adult transplant survival statistics are above the national expectations (as indicated by the UNOS statistics). The overall UCLA adult heart transplant one month patient survival for the time period noted above is 94% and one year patient survival is 83% which exceeds UNOS's expected survival rates of 91.7% and 81.6% respectively.

The UCLA Adult Heart Transplant Program has been an innovative leader in the field of heart transplantation specifically in increasing the donor pool. We have originated the Alternate Donor Program where we have offered older donor hearts to older recipients who otherwise may not be candidates for heart transplantation. Survival outcome has been identical to primary heart transplant recipients which are both higher than the expected UNOS survival rates stated above. Of the UCLA adult heart transplants performed in the reporting period, 33% were done on minority patients. Nationally, the average is 17%. This shows that UCLA's data reflects the diversity of the community it serves.

We believe that our experience, innovative approaches to heart transplantation, and excellent statistics have resulted in one of the largest and most respected heart transplant programs in the world. Our program consists of devoted transplant physicians dedicated to the care of transplant recipients and committed to improving their survival and quality of life.

Jon Kobashigawa, MD  
Assistant Clinical Professor of Medicine  
Medical Director of Cardiac Transplantation



## Heart Transplants: January 1, 1988 - April 30, 1994

Survival Report for USC - University Hospital - Los Angeles CA  
Provider Number 050696 (CAUH)Graft Survival

	Era 1: 1/1/88-4/30/92			Era 2: 5/1/92-4/30/94			Overall: 1/1/88-4/30/94						
Time Point	No. of TX	Act. Rate (%)	Exp. Rate (%)	No. of TX	Act. Rate (%)	Exp. Rate (%)	No. of TX	No. <sup>1</sup> w/CFU	No. Failed	Act. Rate (%)	Exp. Rate (%)	Diff. (%)	p- <sup>2</sup> value
1 Month				4	75.0	93.5	4	4	1	75.0	93.5	-18.5	0.24
1 Year				4	75.0	84.3	4	4	1	75.0	84.3	-9.3	0.50
Cond. <sup>3</sup> 3 Years													
3 Years <sup>3</sup>													

Patient Survival

	Era 1: 1/1/88-4/30/92			Era 2: 5/1/92-4/30/94			Overall: 1/1/88-4/30/94						
Time Point	No. of Pts. <sup>4</sup>	Act. Rate (%)	Exp. Rate (%)	No. of Pts. <sup>4</sup>	Act. Rate (%)	Exp. Rate (%)	No. of Pts. <sup>4</sup>	No. <sup>1,5</sup> w/CFU	No. <sup>5</sup> Died	Act. Rate (%)	Exp. Rate (%)	Diff. (%)	p- <sup>2</sup> value
1 Month				4	75.0	93.7	4	4.0	1.0	75.0	93.7	-18.7	0.23
1 Year				4	75.0	84.6	4	4.0	1.0	75.0	84.6	-9.6	0.49
Cond. <sup>3</sup> 3 Years													
3 Years <sup>3</sup>													

Notes: <sup>1</sup> No. with complete follow-up (CFU) is the total of the number of patients (grafts) whose status was known during the specified time interval.

<sup>2</sup> A p-value followed by an \* indicates that the difference is statistically significant at the 0.05 level.

<sup>3</sup> Conditional 3 year survival rates are the survival rates conditional on survival at 1 year. These are computed based on transplants between 1/1/88 and 4/30/92. Three year survival rates are computed by multiplying the 1 year and the conditional 3 year survival rates.

<sup>4</sup> The numbers of patients in Era 1 and Era 2 do not necessarily add up to the number of patients in the overall period, due to repeat transplants in different eras for some patients.

<sup>5</sup> No. w/CFU or No. Died may be fractional if patients received more than one transplant at the program.

Source: UNOS OPTN/Scientific Registry data.

**Heart Transplants: January 1, 1988 - April 30, 1994**  
**Donor and Recipient Characteristics: Program and National Frequencies**

**USC - University Hospital - Los Angeles CA**  
**Provider Number 050696 (CAUH)**

		---- Program ----		--- National ---	
		Number	%	Number	%
<b>Total Transplants and Percentages</b>		<b>4</b>	<b>100.0</b>	<b>12627</b>	<b>100.0</b>
<b>Donor Age</b>	0-5	0	0.0	799	6.3
	6-10	0	0.0	274	2.2
	11-17	2	50.0	2029	16.1
	18-49	1	25.0	8923	70.7
	50-64	1	25.0	589	4.7
	65+	0	0.0	12	0.1
	Not Reported	0	0.0	1	0.0
<b>Donor Gender</b>	Female	0	0.0	3728	29.5
	Male	4	100.0	8899	70.5
<b>Donor Race</b>	White	3	75.0	10036	79.5
	Black	1	25.0	1263	10.0
	Hispanic	0	0.0	1143	9.1
	Asian	0	0.0	90	0.7
	Other	0	0.0	87	0.7
	Not Reported	0	0.0	8	0.1
<b>Recipient Age</b>	<1	0	0.0	549	4.3
	1-10	0	0.0	431	3.4
	11-17	0	0.0	358	2.8
	18-49	1	25.0	4493	35.6
	50-64	2	50.0	6373	50.5
	65+	1	25.0	423	3.3
<b>Recipient Gender</b>	Female	0	0.0	2761	21.9
	Male	4	100.0	9866	78.1
<b>Recipient Race</b>	White	2	50.0	10504	83.2
	Black	0	0.0	1206	9.6
	Hispanic	2	50.0	570	4.5
	Asian	0	0.0	125	1.0
	Other	0	0.0	216	1.7
	Not Reported	0	0.0	6	0.0

		----- Program -----		--- National ---	
		Number	%	Number	%
<b>Previous Heart Transplant</b>	No	4	100.0	12231	96.9
	Yes	0	0.0	344	2.7
	Not Reported	0	0.0	52	0.4
<b>On Ventilator at Transplant</b>	No	4	100.0	11892	94.2
	Yes	0	0.0	663	5.3
	Not Reported	0	0.0	72	0.6
<b>On VAD at Transplant</b>	No	4	100.0	12187	96.5
	Yes	0	0.0	366	2.9
	Not Reported	0	0.0	74	0.6
<b>On IABP at Transplant</b>	No	3	75.0	11754	93.1
	Yes	1	25.0	801	6.3
	Not Reported	0	0.0	72	0.6
<b>Diagnosis at Transplant</b>	Coronary Artery Disease	3	75.0	5222	41.4
	Cardiomyopathy	1	25.0	5779	45.8
	Eisenmenger's Syndrome/Congenital	0	0.0	933	7.4
	Valvular Heart Disease	0	0.0	476	3.8
	Other Diagnosis	0	0.0	183	1.4
	Not Reported	0	0.0	34	0.3
<b>Medical Condition at Transplant</b>	Not Hospitalized	2	50.0	5606	44.4
	Hospitalized	0	0.0	986	7.8
	In ICU	2	50.0	6019	47.7
	Not Reported	0	0.0	16	0.1
<b>Cold Ischemia Time</b>	Up to 2 hrs	1	25.0	3458	27.4
	> 2 - 2.5 hrs	1	25.0	2271	18.0
	> 2.5 - 3 hrs	1	25.0	2408	19.1
	> 3 - 3.5 hrs	1	25.0	1949	15.4
	> 3.5 hrs	0	0.0	2453	19.4
	Not Reported	0	0.0	88	0.7
<b>Year of Transplant</b>	1988	0	0.0	1649	13.1
	1989	0	0.0	1677	13.3
	1990	0	0.0	2071	16.4
	1991	0	0.0	2098	16.6
	1992	0	0.0	2145	17.0
	1993	3	75.0	2266	17.9
	1994	1	25.0	721	5.7

Source: UNOS OPTN/Scientific Registry data.

**Response From: University of Southern California - University Hospital  
1510 San Pablo Street, Los Angeles, CA 90033  
Provider Number 050696 (CAUH)**

May 7, 1997

USC University Cardiac Transplant Program began in September of 1993, with its first cardiac transplant. From that time to April 30, 1994 (7 months). USC University Hospital performed 4 cardiac transplants.

Our Transplant program was small during this time period analyzed by UNOS' and has grown steadily ever since. Having performed only 4 transplants in the reported seven months period, the reported survival rates for this period does not adequately reflect our current experience with transplantation. The one death from that reported time period remains the only death in the programs history, yielding a one year survival 95.6% to the current date.

USC University Hospital met stringent membership criteria in order to be certified by UNOS. We are extremely proud of our Cardiac Transplant Program and will continue to provide the highest quality of care for our patient population.

Vaughn A. Starnes, M.D.  
Director of Cardiothoracic Transplantation

A handwritten signature in black ink, appearing to read 'Vaughn A. Starnes', with a stylized flourish at the end.

## Heart Transplants: January 1, 1988 - April 30, 1994

Survival Report for The Children's Hospital - Denver CO  
Provider Number 063301 (COCH)Graft Survival

	Era 1: 1/1/88-4/30/92			Era 2: 5/1/92-4/30/94			Overall: 1/1/88-4/30/94						
Time Point	No. of TX	Act. Rate (%)	Exp. Rate (%)	No. of TX	Act. Rate (%)	Exp. Rate (%)	No. of TX	No. <sup>1</sup> w/CFU	No. Failed	Act. Rate (%)	Exp. Rate (%)	Diff. (%)	p- <sup>2</sup> value
1 Month	10	90.0	86.6	32	84.4	85.4	42	42	6	85.7	85.7	0.0	0.99
1 Year	10	90.0	74.0	32	81.3	74.4	42	42	7	83.3	74.3	9.0	0.16
Cond. <sup>3</sup> 3 Years	9	100.0	89.5				9	9	0	100.0	89.5	10.5	0.30
3 Years <sup>3</sup>		90.0	66.2										

Patient Survival

	Era 1: 1/1/88-4/30/92			Era 2: 5/1/92-4/30/94			Overall: 1/1/88-4/30/94						
Time Point	No. of Pts. <sup>4</sup>	Act. Rate (%)	Exp. Rate (%)	No. of Pts. <sup>4</sup>	Act. Rate (%)	Exp. Rate (%)	No. of Pts. <sup>4</sup>	No. <sup>1,5</sup> w/CFU	No. <sup>5</sup> Died	Act. Rate (%)	Exp. Rate (%)	Diff. (%)	p- <sup>2</sup> value
1 Month	10	90.0	87.0	32	84.4	85.6	42	42.0	6.0	85.7	86.0	-0.2	0.96
1 Year	10	90.0	74.9	32	81.3	75.3	42	42.0	7.0	83.3	75.2	8.2	0.20
Cond. <sup>3</sup> 3 Years	9	100.0	89.9				9	9.0	0.0	100.0	89.9	10.1	0.31
3 Years <sup>3</sup>		90.0	67.3										

Notes: <sup>1</sup> No. with complete follow-up (CFU) is the total of the number of patients (grafts) whose status was known during the specified time interval.

<sup>2</sup> A p-value followed by an \* indicates that the difference is statistically significant at the 0.05 level.

<sup>3</sup> Conditional 3 year survival rates are the survival rates conditional on survival at 1 year. These are computed based on transplants between 1/1/88 and 4/30/92. Three year survival rates are computed by multiplying the 1 year and the conditional 3 year survival rates.

<sup>4</sup> The numbers of patients in Era 1 and Era 2 do not necessarily add up to the number of patients in the overall period, due to repeat transplants in different eras for some patients.

<sup>5</sup> No. w/CFU or No. Died may be fractional if patients received more than one transplant at the program.

Source: UNOS OPTN/Scientific Registry data.



**Heart Transplants: January 1, 1988 - April 30, 1994**  
**Donor and Recipient Characteristics: Program and National Frequencies**

**The Children's Hospital - Denver CO**  
**Provider Number 063301 (COCH)**

		---- Program ----		--- National ---	
		Number	%	Number	%
<b>Total Transplants and Percentages</b>		<b>42</b>	<b>100.0</b>	<b>12627</b>	<b>100.0</b>
<b>Donor Age</b>	0-5	28	66.7	799	6.3
	6-10	3	7.1	274	2.2
	11-17	8	19.0	2029	16.1
	18-49	3	7.1	8923	70.7
	50-64	0	0.0	589	4.7
	65+	0	0.0	12	0.1
	Not Reported	0	0.0	1	0.0
<b>Donor Gender</b>	Female	14	33.3	3728	29.5
	Male	28	66.7	8899	70.5
<b>Donor Race</b>	White	24	57.1	10036	79.5
	Black	6	14.3	1263	10.0
	Hispanic	11	26.2	1143	9.1
	Asian	1	2.4	90	0.7
	Other	0	0.0	87	0.7
	Not Reported	0	0.0	8	0.1
<b>Recipient Age</b>	<1	26	61.9	549	4.3
	1-10	11	26.2	431	3.4
	11-17	2	4.8	358	2.8
	18-49	3	7.1	4493	35.6
	50-64	0	0.0	6373	50.5
	65+	0	0.0	423	3.3
<b>Recipient Gender</b>	Female	17	40.5	2761	21.9
	Male	25	59.5	9866	78.1
<b>Recipient Race</b>	White	36	85.7	10504	83.2
	Black	2	4.8	1206	9.6
	Hispanic	4	9.5	570	4.5
	Asian	0	0.0	125	1.0
	Other	0	0.0	216	1.7
	Not Reported	0	0.0	6	0.0

		----- Program -----		--- National ---	
		Number	%	Number	%
Previous Heart Transplant	No	42	100.0	12231	96.9
	Yes	0	0.0	344	2.7
	Not Reported	0	0.0	52	0.4
On Ventilator at Transplant	No	33	78.6	11892	94.2
	Yes	8	19.0	663	5.3
	Not Reported	1	2.4	72	0.6
On VAD at Transplant	No	41	97.6	12187	96.5
	Yes	0	0.0	366	2.9
	Not Reported	1	2.4	74	0.6
On IABP at Transplant	No	41	97.6	11754	93.1
	Yes	0	0.0	801	6.3
	Not Reported	1	2.4	72	0.6
Diagnosis at Transplant	Coronary Artery Disease	0	0.0	5222	41.4
	Cardiomyopathy	6	14.3	5779	45.8
	Eisenmenger's Syndrome/Congenital	36	85.7	933	7.4
	Valvular Heart Disease	0	0.0	476	3.8
	Other Diagnosis	0	0.0	183	1.4
	Not Reported	0	0.0	34	0.3
Medical Condition at Transplant	Not Hospitalized	24	57.1	5606	44.4
	Hospitalized	1	2.4	986	7.8
	In ICU	16	38.1	6019	47.7
	Not Reported	1	2.4	16	0.1
Cold Ischemia Time	Up to 2 hrs	5	11.9	3458	27.4
	> 2 - 2.5 hrs	4	9.5	2271	18.0
	> 2.5 - 3 hrs	5	11.9	2408	19.1
	> 3 - 3.5 hrs	10	23.8	1949	15.4
	> 3.5 hrs	18	42.9	2453	19.4
	Not Reported	0	0.0	88	0.7
Year of Transplant	1988	0	0.0	1649	13.1
	1989	0	0.0	1677	13.3
	1990	3	7.1	2071	16.4
	1991	5	11.9	2098	16.6
	1992	9	21.4	2145	17.0
	1993	20	47.6	2266	17.9
	1994	5	11.9	721	5.7

Source: UNOS OPTN/Scientific Registry data.

## Heart Transplants: January 1, 1988 - April 30, 1994

Survival Report for Memorial Hospital - Colorado Springs CO  
Provider Number 060022 (COMH)Graft Survival

	Era 1: 1/1/88-4/30/92			Era 2: 5/1/92-4/30/94			Overall: 1/1/88-4/30/94						
Time Point	No. of TX	Act. Rate (%)	Exp. Rate (%)	No. of TX	Act. Rate (%)	Exp. Rate (%)	No. of TX	No. <sup>1</sup> w/CFU	No. Failed	Act. Rate (%)	Exp. Rate (%)	Diff. (%)	p- <sup>2</sup> value
1 Month	2	100.0	92.0	7	85.7	91.1	9	9	1	88.9	91.3	-2.4	0.79
1 Year	2	100.0	85.5	7	57.1	81.6	9	9	3	66.7	82.5	-15.8	0.20
Cond. <sup>3</sup> 3 Years	2	100.0	92.6				2	2	0	100.0	92.6	7.4	0.86
3 Years <sup>3</sup>		100.0	79.1										

Patient Survival

	Era 1: 1/1/88-4/30/92			Era 2: 5/1/92-4/30/94			Overall: 1/1/88-4/30/94						
Time Point	No. of Pts. <sup>4</sup>	Act. Rate (%)	Exp. Rate (%)	No. of Pts. <sup>4</sup>	Act. Rate (%)	Exp. Rate (%)	No. of Pts. <sup>4</sup>	No. <sup>1,5</sup> w/CFU	No. <sup>5</sup> Died	Act. Rate (%)	Exp. Rate (%)	Diff. (%)	p- <sup>2</sup> value
1 Month	2	100.0	93.2	7	85.7	91.5	9	9.0	1.0	88.9	91.9	-3.0	0.74
1 Year	2	100.0	86.5	7	57.1	82.1	9	9.0	3.0	66.7	83.1	-16.4	0.18
Cond. <sup>3</sup> 3 Years	2	100.0	92.8				2	2.0	0.0	100.0	92.8	7.2	0.87
3 Years <sup>3</sup>		100.0	80.2										

Notes: <sup>1</sup> No. with complete follow-up (CFU) is the total of the number of patients (grafts) whose status was known during the specified time interval.

<sup>2</sup> A p-value followed by an \* indicates that the difference is statistically significant at the 0.05 level.

<sup>3</sup> Conditional 3 year survival rates are the survival rates conditional on survival at 1 year. These are computed based on transplants between 1/1/88 and 4/30/92. Three year survival rates are computed by multiplying the 1 year and the conditional 3 year survival rates.

<sup>4</sup> The numbers of patients in Era 1 and Era 2 do not necessarily add up to the number of patients in the overall period, due to repeat transplants in different eras for some patients.

<sup>5</sup> No. w/CFU or No. Died may be fractional if patients received more than one transplant at the program.

Source: UNOS OPTN/Scientific Registry data.

**Heart Transplants: January 1, 1988 - April 30, 1994**  
**Donor and Recipient Characteristics: Program and National Frequencies**

**Memorial Hospital - Colorado Springs CO**  
**Provider Number 060022 (COMH)**

		----- Program -----		--- National ---	
		Number	%	Number	%
<b>Total Transplants and Percentages</b>		<b>9</b>	<b>100.0</b>	<b>12627</b>	<b>100.0</b>
<b>Donor Age</b>	0-5	0	0.0	799	6.3
	6-10	0	0.0	274	2.2
	11-17	2	22.2	2029	16.1
	18-49	6	66.7	8923	70.7
	50-64	1	11.1	589	4.7
	65+	0	0.0	12	0.1
	Not Reported	0	0.0	1	0.0
<b>Donor Gender</b>	Female	3	33.3	3728	29.5
	Male	6	66.7	8899	70.5
<b>Donor Race</b>	White	7	77.8	10036	79.5
	Black	0	0.0	1263	10.0
	Hispanic	2	22.2	1143	9.1
	Asian	0	0.0	90	0.7
	Other	0	0.0	87	0.7
	Not Reported	0	0.0	8	0.1
<b>Recipient Age</b>	<1	0	0.0	549	4.3
	1-10	0	0.0	431	3.4
	11-17	0	0.0	358	2.8
	18-49	2	22.2	4493	35.6
	50-64	7	77.8	6373	50.5
	65+	0	0.0	423	3.3
<b>Recipient Gender</b>	Female	2	22.2	2761	21.9
	Male	7	77.8	9866	78.1
<b>Recipient Race</b>	White	8	88.9	10504	83.2
	Black	1	11.1	1206	9.6
	Hispanic	0	0.0	570	4.5
	Asian	0	0.0	125	1.0
	Other	0	0.0	216	1.7
	Not Reported	0	0.0	6	0.0

		----- Program -----		--- National ---	
		Number	%	Number	%
<b>Previous Heart Transplant</b>	No	9	100.0	12231	96.9
	Yes	0	0.0	344	2.7
	Not Reported	0	0.0	52	0.4
<b>On Ventilator at Transplant</b>	No	9	100.0	11892	94.2
	Yes	0	0.0	663	5.3
	Not Reported	0	0.0	72	0.6
<b>On VAD at Transplant</b>	No	9	100.0	12187	96.5
	Yes	0	0.0	366	2.9
	Not Reported	0	0.0	74	0.6
<b>On IABP at Transplant</b>	No	7	77.8	11754	93.1
	Yes	2	22.2	801	6.3
	Not Reported	0	0.0	72	0.6
<b>Diagnosis at Transplant</b>	Coronary Artery Disease	4	44.4	5222	41.4
	Cardiomyopathy	0	0.0	5779	45.8
	Eisenmenger's Syndrome/Congenital	0	0.0	933	7.4
	Valvular Heart Disease	2	22.2	476	3.8
	Other Diagnosis	3	33.3	183	1.4
	Not Reported	0	0.0	34	0.3
<b>Medical Condition at Transplant</b>	Not Hospitalized	3	33.3	5606	44.4
	Hospitalized	3	33.3	986	7.8
	In ICU	3	33.3	6019	47.7
	Not Reported	0	0.0	16	0.1
<b>Cold Ischemia Time</b>	Up to 2 hrs	3	33.3	3458	27.4
	> 2 - 2.5 hrs	3	33.3	2271	18.0
	> 2.5 - 3 hrs	3	33.3	2408	19.1
	> 3 - 3.5 hrs	0	0.0	1949	15.4
	> 3.5 hrs	0	0.0	2453	19.4
	Not Reported	0	0.0	88	0.7
<b>Year of Transplant</b>	1988	0	0.0	1649	13.1
	1989	0	0.0	1677	13.3
	1990	0	0.0	2071	16.4
	1991	0	0.0	2098	16.6
	1992	3	33.3	2145	17.0
	1993	5	55.6	2266	17.9
	1994	1	11.1	721	5.7

Source: UNOS OPTN/Scientific Registry data.

## Heart Transplants: January 1, 1988 - April 30, 1994

Survival Report for Columbia Presbyterian/St Luke's Medical Center - Denver CO  
Provider Number 060014 (COSL)Graft Survival

	Era 1: 1/1/88-4/30/92			Era 2: 5/1/92-4/30/94			Overall: 1/1/88-4/30/94						
Time Point	No. of TX	Act. Rate (%)	Exp. Rate (%)	No. of TX	Act. Rate (%)	Exp. Rate (%)	No. of TX	No. <sup>1</sup> w/CFU	No. Failed	Act. Rate (%)	Exp. Rate (%)	Diff. (%)	p- <sup>2</sup> value
1 Month	35	80.0	92.4	14	85.7	93.2	49	49	9	81.6	92.7	-11.0	<0.01*
1 Year	35	65.7	82.0	14	78.6	83.6	49	49	15	69.4	82.4	-13.0	0.01*
Cond. <sup>3</sup> 3 Years	23	91.3	90.4				23	23	2	91.3	90.4	1.0	0.88
3 Years <sup>3</sup>		60.0	74.1										

Patient Survival

	Era 1: 1/1/88-4/30/92			Era 2: 5/1/92-4/30/94			Overall: 1/1/88-4/30/94						
Time Point	No. of Pts. <sup>4</sup>	Act. Rate (%)	Exp. Rate (%)	No. of Pts. <sup>4</sup>	Act. Rate (%)	Exp. Rate (%)	No. of Pts. <sup>4</sup>	No. <sup>1,5</sup> w/CFU	No. <sup>5</sup> Died	Act. Rate (%)	Exp. Rate (%)	Diff. (%)	p- <sup>2</sup> value
1 Month	33	80.3	92.9	14	85.7	93.4	47	47.0	8.5	81.9	93.0	-11.1	<0.01*
1 Year	33	68.2	83.0	14	78.6	83.9	47	47.0	13.5	71.3	83.2	-12.0	0.03*
Cond. <sup>3</sup> 3 Years	23	91.3	90.7				23	23.0	2.0	91.3	90.7	0.6	0.92
3 Years <sup>3</sup>		62.3	75.3										

Notes: <sup>1</sup> No. with complete follow-up (CFU) is the total of the number of patients (grafts) whose status was known during the specified time interval.

<sup>2</sup> A p-value followed by an \* indicates that the difference is statistically significant at the 0.05 level.

<sup>3</sup> Conditional 3 year survival rates are the survival rates conditional on survival at 1 year. These are computed based on transplants between 1/1/88 and 4/30/92. Three year survival rates are computed by multiplying the 1 year and the conditional 3 year survival rates.

<sup>4</sup> The numbers of patients in Era 1 and Era 2 do not necessarily add up to the number of patients in the overall period, due to repeat transplants in different eras for some patients.

<sup>5</sup> No. w/CFU or No. Died may be fractional if patients received more than one transplant at the program.

Source: UNOS OPTN/Scientific Registry data.



**Heart Transplants: January 1, 1988 - April 30, 1994**  
**Donor and Recipient Characteristics: Program and National Frequencies**

**Columbia Presbyterian/St Luke's Medical Center - Denver CO**  
**Provider Number 060014 (COSL)**

		---- Program ----		--- National ---	
		Number	%	Number	%
<b>Total Transplants and Percentages</b>		<b>49</b>	<b>100.0</b>	<b>12627</b>	<b>100.0</b>
<b>Donor Age</b>	0-5	0	0.0	799	6.3
	6-10	0	0.0	274	2.2
	11-17	8	16.3	2029	16.1
	18-49	40	81.6	8923	70.7
	50-64	1	2.0	589	4.7
	65+	0	0.0	12	0.1
	Not Reported	0	0.0	1	0.0
<b>Donor Gender</b>	Female	9	18.4	3728	29.5
	Male	40	81.6	8899	70.5
<b>Donor Race</b>	White	43	87.8	10036	79.5
	Black	2	4.1	1263	10.0
	Hispanic	3	6.1	1143	9.1
	Asian	0	0.0	90	0.7
	Other	1	2.0	87	0.7
	Not Reported	0	0.0	8	0.1
<b>Recipient Age</b>	<1	0	0.0	549	4.3
	1-10	0	0.0	431	3.4
	11-17	0	0.0	358	2.8
	18-49	10	20.4	4493	35.6
	50-64	33	67.3	6373	50.5
	65+	6	12.2	423	3.3
<b>Recipient Gender</b>	Female	10	20.4	2761	21.9
	Male	39	79.6	9866	78.1
<b>Recipient Race</b>	White	45	91.8	10504	83.2
	Black	0	0.0	1206	9.6
	Hispanic	2	4.1	570	4.5
	Asian	1	2.0	125	1.0
	Other	1	2.0	216	1.7
	Not Reported	0	0.0	6	0.0

		----- Program -----		--- National ---	
		Number	%	Number	%
<b>Previous Heart Transplant</b>	No	47	95.9	12231	96.9
	Yes	2	4.1	344	2.7
	Not Reported	0	0.0	52	0.4
<b>On Ventilator at Transplant</b>	No	48	98.0	11892	94.2
	Yes	1	2.0	663	5.3
	Not Reported	0	0.0	72	0.6
<b>On VAD at Transplant</b>	No	49	100.0	12187	96.5
	Yes	0	0.0	366	2.9
	Not Reported	0	0.0	74	0.6
<b>On IABP at Transplant</b>	No	44	89.8	11754	93.1
	Yes	5	10.2	801	6.3
	Not Reported	0	0.0	72	0.6
<b>Diagnosis at Transplant</b>	Coronary Artery Disease	30	61.2	5222	41.4
	Cardiomyopathy	16	32.7	5779	45.8
	Eisenmenger's Syndrome/Congenital	0	0.0	933	7.4
	Valvular Heart Disease	3	6.1	476	3.8
	Other Diagnosis	0	0.0	183	1.4
	Not Reported	0	0.0	34	0.3
<b>Medical Condition at Transplant</b>	Not Hospitalized	28	57.1	5606	44.4
	Hospitalized	4	8.2	986	7.8
	In ICU	17	34.7	6019	47.7
	Not Reported	0	0.0	16	0.1
<b>Cold Ischemia Time</b>	Up to 2 hrs	27	55.1	3458	27.4
	> 2 - 2.5 hrs	9	18.4	2271	18.0
	> 2.5 - 3 hrs	4	8.2	2408	19.1
	> 3 - 3.5 hrs	8	16.3	1949	15.4
	> 3.5 hrs	1	2.0	2453	19.4
	Not Reported	0	0.0	88	0.7
<b>Year of Transplant</b>	1988	12	24.5	1649	13.1
	1989	6	12.2	1677	13.3
	1990	11	22.4	2071	16.4
	1991	4	8.2	2098	16.6
	1992	7	14.3	2145	17.0
	1993	9	18.4	2266	17.9
	1994	0	0.0	721	5.7

Source: UNOS OPTN/Scientific Registry data.

## Heart Transplants: January 1, 1988 - April 30, 1994

Survival Report for University Hospital - Denver CO  
Provider Number 060024 (COUC)Graft Survival

	Era 1: 1/1/88-4/30/92			Era 2: 5/1/92-4/30/94			Overall: 1/1/88-4/30/94						
Time Point	No. of TX	Act. Rate (%)	Exp. Rate (%)	No. of TX	Act. Rate (%)	Exp. Rate (%)	No. of TX	No. <sup>1</sup> w/CFU	No. Failed	Act. Rate (%)	Exp. Rate (%)	Diff. (%)	p- <sup>2</sup> value
1 Month	45	91.1	93.3	46	95.6	90.9	91	90	6	93.4	92.1	1.3	0.65
1 Year	45	88.9	84.5	46	91.1	81.8	91	89	9	90.0	83.2	6.9	0.08
Cond. <sup>3</sup> 3 Years	40	97.5	90.1				40	39	1	97.5	90.1	7.4	0.11
3 Years <sup>3</sup>		86.7	76.1										

Patient Survival

	Era 1: 1/1/88-4/30/92			Era 2: 5/1/92-4/30/94			Overall: 1/1/88-4/30/94						
Time Point	No. of Pts. <sup>4</sup>	Act. Rate (%)	Exp. Rate (%)	No. of Pts. <sup>4</sup>	Act. Rate (%)	Exp. Rate (%)	No. of Pts. <sup>4</sup>	No. <sup>1,5</sup> w/CFU	No. <sup>5</sup> Died	Act. Rate (%)	Exp. Rate (%)	Diff. (%)	p- <sup>2</sup> value
1 Month	44	93.2	93.8	45	95.5	91.4	89	88.5	5.0	94.4	92.6	1.8	0.51
1 Year	44	90.9	85.5	45	93.3	82.2	89	87.0	7.0	92.1	83.8	8.3	0.03*
Cond. <sup>3</sup> 3 Years	40	97.5	90.6				40	39.0	1.0	97.5	90.6	6.9	0.13
3 Years <sup>3</sup>		88.6	77.4										

Notes: <sup>1</sup> No. with complete follow-up (CFU) is the total of the number of patients (grafts) whose status was known during the specified time interval.

<sup>2</sup> A p-value followed by an \* indicates that the difference is statistically significant at the 0.05 level.

<sup>3</sup> Conditional 3 year survival rates are the survival rates conditional on survival at 1 year. These are computed based on transplants between 1/1/88 and 4/30/92. Three year survival rates are computed by multiplying the 1 year and the conditional 3 year survival rates.

<sup>4</sup> The numbers of patients in Era 1 and Era 2 do not necessarily add up to the number of patients in the overall period, due to repeat transplants in different eras for some patients.

<sup>5</sup> No. w/CFU or No. Died may be fractional if patients received more than one transplant at the program.

Source: UNOS OPTN/Scientific Registry data.

**Heart Transplants: January 1, 1988 - April 30, 1994**  
**Donor and Recipient Characteristics: Program and National Frequencies**

**University Hospital - Denver CO**  
**Provider Number 060024 (COUC)**

		----- Program -----		--- National ---	
		Number	%	Number	%
<b>Total Transplants and Percentages</b>		<b>91</b>	<b>100.0</b>	<b>12627</b>	<b>100.0</b>
<b>Donor Age</b>	0-5	0	0.0	799	6.3
	6-10	1	1.1	274	2.2
	11-17	13	14.3	2029	16.1
	18-49	74	81.3	8923	70.7
	50-64	3	3.3	589	4.7
	65+	0	0.0	12	0.1
	Not Reported	0	0.0	1	0.0
<b>Donor Gender</b>	Female	19	20.9	3728	29.5
	Male	72	79.1	8899	70.5
<b>Donor Race</b>	White	81	89.0	10036	79.5
	Black	4	4.4	1263	10.0
	Hispanic	6	6.6	1143	9.1
	Asian	0	0.0	90	0.7
	Other	0	0.0	87	0.7
	Not Reported	0	0.0	8	0.1
<b>Recipient Age</b>	<1	0	0.0	549	4.3
	1-10	1	1.1	431	3.4
	11-17	2	2.2	358	2.8
	18-49	31	34.1	4493	35.6
	50-64	53	58.2	6373	50.5
	65+	4	4.4	423	3.3
<b>Recipient Gender</b>	Female	16	17.6	2761	21.9
	Male	75	82.4	9866	78.1
<b>Recipient Race</b>	White	79	86.8	10504	83.2
	Black	3	3.3	1206	9.6
	Hispanic	4	4.4	570	4.5
	Asian	1	1.1	125	1.0
	Other	2	2.2	216	1.7
	Not Reported	2	2.2	6	0.0

		----- Program -----		--- National ---	
		Number	%	Number	%
<b>Previous Heart Transplant</b>	No	89	97.8	12231	96.9
	Yes	2	2.2	344	2.7
	Not Reported	0	0.0	52	0.4
<b>On Ventilator at Transplant</b>	No	82	90.1	11892	94.2
	Yes	6	6.6	663	5.3
	Not Reported	3	3.3	72	0.6
<b>On VAD at Transplant</b>	No	87	95.6	12187	96.5
	Yes	1	1.1	366	2.9
	Not Reported	3	3.3	74	0.6
<b>On IABP at Transplant</b>	No	74	81.3	11754	93.1
	Yes	14	15.4	801	6.3
	Not Reported	3	3.3	72	0.6
<b>Diagnosis at Transplant</b>	Coronary Artery Disease	39	42.9	5222	41.4
	Cardiomyopathy	22	24.2	5779	45.8
	Eisenmenger's Syndrome/Congenital	2	2.2	933	7.4
	Valvular Heart Disease	4	4.4	476	3.8
	Other Diagnosis	8	8.8	183	1.4
	Not Reported	16	17.6	34	0.3
<b>Medical Condition at Transplant</b>	Not Hospitalized	34	37.4	5606	44.4
	Hospitalized	5	5.5	986	7.8
	In ICU	44	48.4	6019	47.7
	Not Reported	8	8.8	16	0.1
<b>Cold Ischemia Time</b>	Up to 2 hrs	20	22.0	3458	27.4
	> 2 - 2.5 hrs	19	20.9	2271	18.0
	> 2.5 - 3 hrs	21	23.1	2408	19.1
	> 3 - 3.5 hrs	12	13.2	1949	15.4
	> 3.5 hrs	11	12.1	2453	19.4
	Not Reported	8	8.8	88	0.7
<b>Year of Transplant</b>	1988	4	4.4	1649	13.1
	1989	13	14.3	1677	13.3
	1990	13	14.3	2071	16.4
	1991	8	8.8	2098	16.6
	1992	20	22.0	2145	17.0
	1993	29	31.9	2266	17.9
	1994	4	4.4	721	5.7

Source: UNOS OPTN/Scientific Registry data.

## Heart Transplants: January 1, 1988 - April 30, 1994

Survival Report for Hartford Hospital - Hartford CT  
Provider Number 070025 (CTHH)Graft Survival

	Era 1: 1/1/88-4/30/92			Era 2: 5/1/92-4/30/94			Overall: 1/1/88-4/30/94						
Time Point	No. of TX	Act. Rate (%)	Exp. Rate (%)	No. of TX	Act. Rate (%)	Exp. Rate (%)	No. of TX	No. <sup>1</sup> w/CFU	No. Failed	Act. Rate (%)	Exp. Rate (%)	Diff. (%)	p- <sup>2</sup> value
1 Month	55	100.0	93.2	26	96.2	92.8	81	81	1	98.8	93.1	5.7	0.04*
1 Year	55	85.5	83.8	26	73.1	83.8	81	81	15	81.5	83.8	-2.3	0.56
Cond. <sup>3</sup> 3 Years	47	89.4	90.9				47	47	5	89.4	90.9	-1.5	0.72
3 Years <sup>3</sup>		76.4	76.2										

Patient Survival

	Era 1: 1/1/88-4/30/92			Era 2: 5/1/92-4/30/94			Overall: 1/1/88-4/30/94						
Time Point	No. of Pts. <sup>4</sup>	Act. Rate (%)	Exp. Rate (%)	No. of Pts. <sup>4</sup>	Act. Rate (%)	Exp. Rate (%)	No. of Pts. <sup>4</sup>	No. <sup>1,5</sup> w/CFU	No. <sup>5</sup> Died	Act. Rate (%)	Exp. Rate (%)	Diff. (%)	p- <sup>2</sup> value
1 Month	55	100.0	93.5	26	96.2	93.2	81	81.0	1.0	98.8	93.4	5.3	0.05*
1 Year	55	85.5	84.4	26	73.1	84.3	81	81.0	15.0	81.5	84.3	-2.9	0.47
Cond. <sup>3</sup> 3 Years	47	89.4	91.2				47	47.0	5.0	89.4	91.2	-1.9	0.65
3 Years <sup>3</sup>		76.4	77.0										

Notes: <sup>1</sup> No. with complete follow-up (CFU) is the total of the number of patients (grafts) whose status was known during the specified time interval.

<sup>2</sup> A p-value followed by an \* indicates that the difference is statistically significant at the 0.05 level.

<sup>3</sup> Conditional 3 year survival rates are the survival rates conditional on survival at 1 year. These are computed based on transplants between 1/1/88 and 4/30/92. Three year survival rates are computed by multiplying the 1 year and the conditional 3 year survival rates.

<sup>4</sup> The numbers of patients in Era 1 and Era 2 do not necessarily add up to the number of patients in the overall period, due to repeat transplants in different eras for some patients.

<sup>5</sup> No. w/CFU or No. Died may be fractional if patients received more than one transplant at the program.

Source: UNOS OPTN/Scientific Registry data.



**Heart Transplants: January 1, 1988 - April 30, 1994**  
**Donor and Recipient Characteristics: Program and National Frequencies**

**Hartford Hospital - Hartford CT**  
**Provider Number 070025 (CTHH)**

		----- Program -----		--- National ---	
		Number	%	Number	%
<b>Total Transplants and Percentages</b>		<b>81</b>	<b>100.0</b>	<b>12627</b>	<b>100.0</b>
<b>Donor Age</b>	0-5	0	0.0	799	6.3
	6-10	2	2.5	274	2.2
	11-17	13	16.0	2029	16.1
	18-49	61	75.3	8923	70.7
	50-64	5	6.2	589	4.7
	65+	0	0.0	12	0.1
	Not Reported	0	0.0	1	0.0
<b>Donor Gender</b>	Female	30	37.0	3728	29.5
	Male	51	63.0	8899	70.5
<b>Donor Race</b>	White	74	91.4	10036	79.5
	Black	6	7.4	1263	10.0
	Hispanic	0	0.0	1143	9.1
	Asian	1	1.2	90	0.7
	Other	0	0.0	87	0.7
	Not Reported	0	0.0	8	0.1
<b>Recipient Age</b>	<1	0	0.0	549	4.3
	1-10	0	0.0	431	3.4
	11-17	0	0.0	358	2.8
	18-49	31	38.3	4493	35.6
	50-64	45	55.6	6373	50.5
	65+	5	6.2	423	3.3
<b>Recipient Gender</b>	Female	12	14.8	2761	21.9
	Male	69	85.2	9866	78.1
<b>Recipient Race</b>	White	73	90.1	10504	83.2
	Black	4	4.9	1206	9.6
	Hispanic	1	1.2	570	4.5
	Asian	0	0.0	125	1.0
	Other	3	3.7	216	1.7
	Not Reported	0	0.0	6	0.0

		----- Program -----		--- National ---	
		Number	%	Number	%
<b>Previous Heart Transplant</b>	No	80	98.8	12231	96.9
	Yes	1	1.2	344	2.7
	Not Reported	0	0.0	52	0.4
<b>On Ventilator at Transplant</b>	No	80	98.8	11892	94.2
	Yes	1	1.2	663	5.3
	Not Reported	0	0.0	72	0.6
<b>On VAD at Transplant</b>	No	80	98.8	12187	96.5
	Yes	1	1.2	366	2.9
	Not Reported	0	0.0	74	0.6
<b>On IABP at Transplant</b>	No	76	93.8	11754	93.1
	Yes	5	6.2	801	6.3
	Not Reported	0	0.0	72	0.6
<b>Diagnosis at Transplant</b>	Coronary Artery Disease	41	50.6	5222	41.4
	Cardiomyopathy	28	34.6	5779	45.8
	Eisenmenger's Syndrome/Congenital	0	0.0	933	7.4
	Valvular Heart Disease	11	13.6	476	3.8
	Other Diagnosis	0	0.0	183	1.4
	Not Reported	1	1.2	34	0.3
<b>Medical Condition at Transplant</b>	Not Hospitalized	46	56.8	5606	44.4
	Hospitalized	18	22.2	986	7.8
	In ICU	17	21.0	6019	47.7
	Not Reported	0	0.0	16	0.1
<b>Cold Ischemia Time</b>	Up to 2 hrs	42	51.9	3458	27.4
	> 2 - 2.5 hrs	14	17.3	2271	18.0
	> 2.5 - 3 hrs	11	13.6	2408	19.1
	> 3 - 3.5 hrs	4	4.9	1949	15.4
	> 3.5 hrs	10	12.3	2453	19.4
	Not Reported	0	0.0	88	0.7
<b>Year of Transplant</b>	1988	17	21.0	1649	13.1
	1989	12	14.8	1677	13.3
	1990	12	14.8	2071	16.4
	1991	10	12.3	2098	16.6
	1992	14	17.3	2145	17.0
	1993	12	14.8	2266	17.9
	1994	4	4.9	721	5.7

Source: UNOS OPTN/Scientific Registry data.

## Heart Transplants: January 1, 1988 - April 30, 1994

Survival Report for Yale New Haven Hospital - New Haven CT  
Provider Number 070022 (CTYN)Graft Survival

	Era 1: 1/1/88-4/30/92			Era 2: 5/1/92-4/30/94			Overall: 1/1/88-4/30/94						
Time Point	No. of TX	Act. Rate (%)	Exp. Rate (%)	No. of TX	Act. Rate (%)	Exp. Rate (%)	No. of TX	No. <sup>1</sup> w/CFU	No. Failed	Act. Rate (%)	Exp. Rate (%)	Diff. (%)	p- <sup>2</sup> value
1 Month	49	79.6	91.3	26	92.3	91.8	75	75	12	84.0	91.5	-7.5	0.02*
1 Year	49	71.4	82.0	26	80.8	83.6	75	75	19	74.7	82.5	-7.8	0.07
Cond. <sup>3</sup> 3 Years	35	91.4	90.2				35	35	3	91.4	90.2	1.2	0.81
3 Years <sup>3</sup>		65.3	73.9										

Patient Survival

	Era 1: 1/1/88-4/30/92			Era 2: 5/1/92-4/30/94			Overall: 1/1/88-4/30/94						
Time Point	No. of Pts. <sup>4</sup>	Act. Rate (%)	Exp. Rate (%)	No. of Pts. <sup>4</sup>	Act. Rate (%)	Exp. Rate (%)	No. of Pts. <sup>4</sup>	No. <sup>1,5</sup> w/CFU	No. <sup>5</sup> Died	Act. Rate (%)	Exp. Rate (%)	Diff. (%)	p- <sup>2</sup> value
1 Month	49	79.6	91.7	26	92.3	92.3	75	75.0	12.0	84.0	91.9	-7.9	<0.01*
1 Year	49	71.4	82.7	26	80.8	84.2	75	75.0	19.0	74.7	83.2	-8.5	0.04*
Cond. <sup>3</sup> 3 Years	35	91.4	90.7				35	35.0	3.0	91.4	90.7	0.7	0.88
3 Years <sup>3</sup>		65.3	75.0										

Notes: <sup>1</sup> No. with complete follow-up (CFU) is the total of the number of patients (grafts) whose status was known during the specified time interval.

<sup>2</sup> A p-value followed by an \* indicates that the difference is statistically significant at the 0.05 level.

<sup>3</sup> Conditional 3 year survival rates are the survival rates conditional on survival at 1 year. These are computed based on transplants between 1/1/88 and 4/30/92. Three year survival rates are computed by multiplying the 1 year and the conditional 3 year survival rates.

<sup>4</sup> The numbers of patients in Era 1 and Era 2 do not necessarily add up to the number of patients in the overall period, due to repeat transplants in different eras for some patients.

<sup>5</sup> No. w/CFU or No. Died may be fractional if patients received more than one transplant at the program.

Source: UNOS OPTN/Scientific Registry data.

**Heart Transplants: January 1, 1988 - April 30, 1994**  
**Donor and Recipient Characteristics: Program and National Frequencies**

**Yale New Haven Hospital - New Haven CT**  
**Provider Number 070022 (CTYN)**

		---- Program ----		--- National ---	
		Number	%	Number	%
<b>Total Transplants and Percentages</b>		<b>75</b>	<b>100.0</b>	<b>12627</b>	<b>100.0</b>
<b>Donor Age</b>	0-5	3	4.0	799	6.3
	6-10	1	1.3	274	2.2
	11-17	11	14.7	2029	16.1
	18-49	60	80.0	8923	70.7
	50-64	0	0.0	589	4.7
	65+	0	0.0	12	0.1
	Not Reported	0	0.0	1	0.0
<b>Donor Gender</b>	Female	14	18.7	3728	29.5
	Male	61	81.3	8899	70.5
<b>Donor Race</b>	White	66	88.0	10036	79.5
	Black	0	0.0	1263	10.0
	Hispanic	7	9.3	1143	9.1
	Asian	0	0.0	90	0.7
	Other	2	2.7	87	0.7
	Not Reported	0	0.0	8	0.1
<b>Recipient Age</b>	<1	0	0.0	549	4.3
	1-10	4	5.3	431	3.4
	11-17	2	2.7	358	2.8
	18-49	38	50.7	4493	35.6
	50-64	30	40.0	6373	50.5
	65+	1	1.3	423	3.3
<b>Recipient Gender</b>	Female	17	22.7	2761	21.9
	Male	58	77.3	9866	78.1
<b>Recipient Race</b>	White	62	82.7	10504	83.2
	Black	10	13.3	1206	9.6
	Hispanic	2	2.7	570	4.5
	Asian	0	0.0	125	1.0
	Other	1	1.3	216	1.7
	Not Reported	0	0.0	6	0.0

		----- Program -----		--- National ---	
		Number	%	Number	%
<b>Previous Heart Transplant</b>	No	74	98.7	12231	96.9
	Yes	1	1.3	344	2.7
	Not Reported	0	0.0	52	0.4
<b>On Ventilator at Transplant</b>	No	70	93.3	11892	94.2
	Yes	5	6.7	663	5.3
	Not Reported	0	0.0	72	0.6
<b>On VAD at Transplant</b>	No	73	97.3	12187	96.5
	Yes	2	2.7	366	2.9
	Not Reported	0	0.0	74	0.6
<b>On IABP at Transplant</b>	No	64	85.3	11754	93.1
	Yes	11	14.7	801	6.3
	Not Reported	0	0.0	72	0.6
<b>Diagnosis at Transplant</b>	Coronary Artery Disease	28	37.3	5222	41.4
	Cardiomyopathy	38	50.7	5779	45.8
	Eisenmenger's Syndrome/Congenital	7	9.3	933	7.4
	Valvular Heart Disease	0	0.0	476	3.8
	Other Diagnosis	1	1.3	183	1.4
	Not Reported	1	1.3	34	0.3
<b>Medical Condition at Transplant</b>	Not Hospitalized	7	9.3	5606	44.4
	Hospitalized	5	6.7	986	7.8
	In ICU	63	84.0	6019	47.7
	Not Reported	0	0.0	16	0.1
<b>Cold Ischemia Time</b>	Up to 2 hrs	11	14.7	3458	27.4
	> 2 - 2.5 hrs	14	18.7	2271	18.0
	> 2.5 - 3 hrs	21	28.0	2408	19.1
	> 3 - 3.5 hrs	18	24.0	1949	15.4
	> 3.5 hrs	11	14.7	2453	19.4
	Not Reported	0	0.0	88	0.7
<b>Year of Transplant</b>	1988	4	5.3	1649	13.1
	1989	14	18.7	1677	13.3
	1990	9	12.0	2071	16.4
	1991	19	25.3	2098	16.6
	1992	11	14.7	2145	17.0
	1993	12	16.0	2266	17.9
	1994	6	8.0	721	5.7

Source: UNOS OPTN/Scientific Registry data.

**Response From: Yale-New Haven Hospital  
333 Cedar Street, New Haven, CT 06520  
Provider Number 070022 (CTYN)**

May 8, 1997

In reviewing the UNOS Center Specific Data for heart transplantation from January 1, 1988 to April 30, 1994, I would like to qualify the survival results for Yale-New Haven Hospital. Three year graft and patient survival compare favorably with risk-adjusted expected results and the national average. The early survival results do not compare as favorably due to the higher risk patients undergoing cardiac transplantation at our institution compared to the average national characteristics. Particularly, the number of patients with an intra-aortic balloon pump or hospitalized in an intensive care unit who underwent cardiac transplantation was about twice the national incidence. In addition, there are further risk factors which you have not reported that fail to reflect the acuity of patients at a tertiary referral program such as Yale-New Haven Hospital. For example, 30% of patients are undergoing reoperative sternotomy with patent bypass grafts at the time of cardiac transplantation which represents a significantly higher risk group of patients.

We appreciate your efforts in data collection and analysis and are happy to support you in any way possible.

George Tellides, M.D., D.Phil.





## Heart Transplants: January 1, 1988 - April 30, 1994

Survival Report for Children's National Medical Center - Washington DC  
Provider Number 093300 (DCCH)Graft Survival

	Era 1: 1/1/88-4/30/92			Era 2: 5/1/92-4/30/94			Overall: 1/1/88-4/30/94						
Time Point	No. of TX	Act. Rate (%)	Exp. Rate (%)	No. of TX	Act. Rate (%)	Exp. Rate (%)	No. of TX	No. <sup>1</sup> w/CFU	No. Failed	Act. Rate (%)	Exp. Rate (%)	Diff. (%)	p- <sup>2</sup> value
1 Month	7	71.4	87.9	7	71.4	86.4	14	14	4	71.4	87.2	-15.7	0.07
1 Year	7	42.9	72.0	7	71.4	72.6	14	14	6	57.1	72.3	-15.1	0.19
Cond. <sup>3</sup> 3 Years	3	100.0	87.8				3	3	0	100.0	87.8	12.2	0.72
3 Years <sup>3</sup>		42.9	63.2										

Patient Survival

	Era 1: 1/1/88-4/30/92			Era 2: 5/1/92-4/30/94			Overall: 1/1/88-4/30/94						
Time Point	No. of Pts. <sup>4</sup>	Act. Rate (%)	Exp. Rate (%)	No. of Pts. <sup>4</sup>	Act. Rate (%)	Exp. Rate (%)	No. of Pts. <sup>4</sup>	No. <sup>1,5</sup> w/CFU	No. <sup>5</sup> Died	Act. Rate (%)	Exp. Rate (%)	Diff. (%)	p- <sup>2</sup> value
1 Month	7	71.4	87.6	7	71.4	86.7	14	14.0	4.0	71.4	87.2	-15.7	0.07
1 Year	7	42.9	72.7	7	71.4	73.4	14	14.0	6.0	57.1	73.1	-15.9	0.16
Cond. <sup>3</sup> 3 Years	3	100.0	88.2				3	3.0	0.0	100.0	88.2	11.8	0.72
3 Years <sup>3</sup>		42.9	64.1										

Notes: <sup>1</sup> No. with complete follow-up (CFU) is the total of the number of patients (grafts) whose status was known during the specified time interval.

<sup>2</sup> A p-value followed by an \* indicates that the difference is statistically significant at the 0.05 level.

<sup>3</sup> Conditional 3 year survival rates are the survival rates conditional on survival at 1 year. These are computed based on transplants between 1/1/88 and 4/30/92. Three year survival rates are computed by multiplying the 1 year and the conditional 3 year survival rates.

<sup>4</sup> The numbers of patients in Era 1 and Era 2 do not necessarily add up to the number of patients in the overall period, due to repeat transplants in different eras for some patients.

<sup>5</sup> No. w/CFU or No. Died may be fractional if patients received more than one transplant at the program.

Source: UNOS OPTN/Scientific Registry data.

**Heart Transplants: January 1, 1988 - April 30, 1994**  
**Donor and Recipient Characteristics: Program and National Frequencies**

**Children's National Medical Center - Washington DC**  
**Provider Number 093300 (DCCH)**

		----- Program -----		--- National ---	
		Number	%	Number	%
<b>Total Transplants and Percentages</b>		<b>14</b>	<b>100.0</b>	<b>12627</b>	<b>100.0</b>
<b>Donor Age</b>	0-5	12	85.7	799	6.3
	6-10	0	0.0	274	2.2
	11-17	2	14.3	2029	16.1
	18-49	0	0.0	8923	70.7
	50-64	0	0.0	589	4.7
	65+	0	0.0	12	0.1
	Not Reported	0	0.0	1	0.0
<b>Donor Gender</b>	Female	6	42.9	3728	29.5
	Male	8	57.1	8899	70.5
<b>Donor Race</b>	White	9	64.3	10036	79.5
	Black	5	35.7	1263	10.0
	Hispanic	0	0.0	1143	9.1
	Asian	0	0.0	90	0.7
	Other	0	0.0	87	0.7
	Not Reported	0	0.0	8	0.1
<b>Recipient Age</b>	<1	10	71.4	549	4.3
	1-10	2	14.3	431	3.4
	11-17	2	14.3	358	2.8
	18-49	0	0.0	4493	35.6
	50-64	0	0.0	6373	50.5
	65+	0	0.0	423	3.3
<b>Recipient Gender</b>	Female	8	57.1	2761	21.9
	Male	6	42.9	9866	78.1
<b>Recipient Race</b>	White	5	35.7	10504	83.2
	Black	9	64.3	1206	9.6
	Hispanic	0	0.0	570	4.5
	Asian	0	0.0	125	1.0
	Other	0	0.0	216	1.7
	Not Reported	0	0.0	6	0.0

		----- Program -----		--- National ---	
		Number	%	Number	%
<b>Previous Heart Transplant</b>	No	14	100.0	12231	96.9
	Yes	0	0.0	344	2.7
	Not Reported	0	0.0	52	0.4
<b>On Ventilator at Transplant</b>	No	11	78.6	11892	94.2
	Yes	3	21.4	663	5.3
	Not Reported	0	0.0	72	0.6
<b>On VAD at Transplant</b>	No	14	100.0	12187	96.5
	Yes	0	0.0	366	2.9
	Not Reported	0	0.0	74	0.6
<b>On IABP at Transplant</b>	No	14	100.0	11754	93.1
	Yes	0	0.0	801	6.3
	Not Reported	0	0.0	72	0.6
<b>Diagnosis at Transplant</b>	Coronary Artery Disease	0	0.0	5222	41.4
	Cardiomyopathy	5	35.7	5779	45.8
	Eisenmenger's Syndrome/Congenital	8	57.1	933	7.4
	Valvular Heart Disease	0	0.0	476	3.8
	Other Diagnosis	1	7.1	183	1.4
	Not Reported	0	0.0	34	0.3
<b>Medical Condition at Transplant</b>	Not Hospitalized	5	35.7	5606	44.4
	Hospitalized	4	28.6	986	7.8
	In ICU	5	35.7	6019	47.7
	Not Reported	0	0.0	16	0.1
<b>Cold Ischemia Time</b>	Up to 2 hrs	4	28.6	3458	27.4
	> 2 - 2.5 hrs	0	0.0	2271	18.0
	> 2.5 - 3 hrs	2	14.3	2408	19.1
	> 3 - 3.5 hrs	5	35.7	1949	15.4
	> 3.5 hrs	3	21.4	2453	19.4
	Not Reported	0	0.0	88	0.7
<b>Year of Transplant</b>	1988	0	0.0	1649	13.1
	1989	2	14.3	1677	13.3
	1990	2	14.3	2071	16.4
	1991	3	21.4	2098	16.6
	1992	1	7.1	2145	17.0
	1993	4	28.6	2266	17.9
	1994	2	14.3	721	5.7

Source: UNOS OPTN/Scientific Registry data.

## Heart Transplants: January 1, 1988 - April 30, 1994

Survival Report for Georgetown University Medical Center - Washington DC  
Provider Number 090004 (DCGU)Graft Survival

	Era 1: 1/1/88-4/30/92			Era 2: 5/1/92-4/30/94			Overall: 1/1/88-4/30/94						
Time Point	No. of TX	Act. Rate (%)	Exp. Rate (%)	No. of TX	Act. Rate (%)	Exp. Rate (%)	No. of TX	No. <sup>1</sup> w/CFU	No. Failed	Act. Rate (%)	Exp. Rate (%)	Diff. (%)	p- <sup>2</sup> value
1 Month	14	100.0	92.3	7	100.0	94.6	21	21	0	100.0	93.1	6.9	0.20
1 Year	14	92.9	80.6	7	71.4	83.7	21	21	3	85.7	81.7	4.1	0.62
Cond. <sup>3</sup> 3 Years	13	100.0	89.0				13	13	0	100.0	89.0	11.0	0.20
3 Years <sup>3</sup>		92.9	71.8										

Patient Survival

	Era 1: 1/1/88-4/30/92			Era 2: 5/1/92-4/30/94			Overall: 1/1/88-4/30/94						
Time Point	No. of Pts. <sup>4</sup>	Act. Rate (%)	Exp. Rate (%)	No. of Pts. <sup>4</sup>	Act. Rate (%)	Exp. Rate (%)	No. of Pts. <sup>4</sup>	No. <sup>1,5</sup> w/CFU	No. <sup>5</sup> Died	Act. Rate (%)	Exp. Rate (%)	Diff. (%)	p- <sup>2</sup> value
1 Month	14	100.0	92.4	7	100.0	94.6	21	21.0	0.0	100.0	93.2	6.8	0.21
1 Year	14	92.9	81.2	7	71.4	84.0	21	21.0	3.0	85.7	82.2	3.6	0.66
Cond. <sup>3</sup> 3 Years	13	100.0	89.5				13	13.0	0.0	100.0	89.5	10.5	0.21
3 Years <sup>3</sup>		92.9	72.7										

Notes: <sup>1</sup> No. with complete follow-up (CFU) is the total of the number of patients (grafts) whose status was known during the specified time interval.

<sup>2</sup> A p-value followed by an \* indicates that the difference is statistically significant at the 0.05 level.

<sup>3</sup> Conditional 3 year survival rates are the survival rates conditional on survival at 1 year. These are computed based on transplants between 1/1/88 and 4/30/92. Three year survival rates are computed by multiplying the 1 year and the conditional 3 year survival rates.

<sup>4</sup> The numbers of patients in Era 1 and Era 2 do not necessarily add up to the number of patients in the overall period, due to repeat transplants in different eras for some patients.

<sup>5</sup> No. w/CFU or No. Died may be fractional if patients received more than one transplant at the program.

Source: UNOS OPTN/Scientific Registry data.

**Heart Transplants: January 1, 1988 - April 30, 1994**  
**Donor and Recipient Characteristics: Program and National Frequencies**

**Georgetown University Medical Center - Washington DC**  
**Provider Number 090004 (DCGU)**

		----- Program -----		--- National ---	
		Number	%	Number	%
<b>Total Transplants and Percentages</b>		<b>21</b>	<b>100.0</b>	<b>12627</b>	<b>100.0</b>
<b>Donor Age</b>	0-5	0	0.0	799	6.3
	6-10	0	0.0	274	2.2
	11-17	3	14.3	2029	16.1
	18-49	17	81.0	8923	70.7
	50-64	1	4.8	589	4.7
	65+	0	0.0	12	0.1
	Not Reported	0	0.0	1	0.0
<b>Donor Gender</b>	Female	2	9.5	3728	29.5
	Male	19	90.5	8899	70.5
<b>Donor Race</b>	White	12	57.1	10036	79.5
	Black	8	38.1	1263	10.0
	Hispanic	1	4.8	1143	9.1
	Asian	0	0.0	90	0.7
	Other	0	0.0	87	0.7
	Not Reported	0	0.0	8	0.1
<b>Recipient Age</b>	<1	0	0.0	549	4.3
	1-10	0	0.0	431	3.4
	11-17	0	0.0	358	2.8
	18-49	9	42.9	4493	35.6
	50-64	11	52.4	6373	50.5
	65+	1	4.8	423	3.3
<b>Recipient Gender</b>	Female	2	9.5	2761	21.9
	Male	19	90.5	9866	78.1
<b>Recipient Race</b>	White	13	61.9	10504	83.2
	Black	8	38.1	1206	9.6
	Hispanic	0	0.0	570	4.5
	Asian	0	0.0	125	1.0
	Other	0	0.0	216	1.7
	Not Reported	0	0.0	6	0.0

		----- Program -----		--- National ---	
		Number	%	Number	%
<b>Previous Heart Transplant</b>	No	21	100.0	12231	96.9
	Yes	0	0.0	344	2.7
	Not Reported	0	0.0	52	0.4
<b>On Ventilator at Transplant</b>	No	20	95.2	11892	94.2
	Yes	1	4.8	663	5.3
	Not Reported	0	0.0	72	0.6
<b>On VAD at Transplant</b>	No	21	100.0	12187	96.5
	Yes	0	0.0	366	2.9
	Not Reported	0	0.0	74	0.6
<b>On IABP at Transplant</b>	No	19	90.5	11754	93.1
	Yes	2	9.5	801	6.3
	Not Reported	0	0.0	72	0.6
<b>Diagnosis at Transplant</b>	Coronary Artery Disease	10	47.6	5222	41.4
	Cardiomyopathy	10	47.6	5779	45.8
	Eisenmenger's Syndrome/Congenital	0	0.0	933	7.4
	Valvular Heart Disease	1	4.8	476	3.8
	Other Diagnosis	0	0.0	183	1.4
	Not Reported	0	0.0	34	0.3
<b>Medical Condition at Transplant</b>	Not Hospitalized	7	33.3	5606	44.4
	Hospitalized	0	0.0	986	7.8
	In ICU	14	66.7	6019	47.7
	Not Reported	0	0.0	16	0.1
<b>Cold Ischemia Time</b>	Up to 2 hrs	0	0.0	3458	27.4
	> 2 - 2.5 hrs	4	19.0	2271	18.0
	> 2.5 - 3 hrs	5	23.8	2408	19.1
	> 3 - 3.5 hrs	10	47.6	1949	15.4
	> 3.5 hrs	2	9.5	2453	19.4
	Not Reported	0	0.0	88	0.7
<b>Year of Transplant</b>	1988	5	23.8	1649	13.1
	1989	2	9.5	1677	13.3
	1990	2	9.5	2071	16.4
	1991	5	23.8	2098	16.6
	1992	1	4.8	2145	17.0
	1993	4	19.0	2266	17.9
	1994	2	9.5	721	5.7

Source: UNOS OPTN/Scientific Registry data.



## Heart Transplants: January 1, 1988 - April 30, 1994

Survival Report for George Washington University Medical Center - Washington DC  
Provider Number 090001 (DCGW)Graft Survival

	Era 1: 1/1/88-4/30/92			Era 2: 5/1/92-4/30/94			Overall: 1/1/88-4/30/94						
Time Point	No. of TX	Act. Rate (%)	Exp. Rate (%)	No. of TX	Act. Rate (%)	Exp. Rate (%)	No. of TX	No. <sup>1</sup> w/CFU	No. Failed	Act. Rate (%)	Exp. Rate (%)	Diff. (%)	p- <sup>2</sup> value
1 Month	11	90.9	92.9	3	100.0	94.8	14	14	1	92.9	93.3	-0.5	0.94
1 Year	11	81.8	81.1	3	66.7	85.8	14	14	3	78.6	82.1	-3.5	0.72
Cond. <sup>3</sup> 3 Years	9	88.9	90.9				9	9	1	88.9	90.9	-2.0	0.83
3 Years <sup>3</sup>		72.7	73.7										

Patient Survival

	Era 1: 1/1/88-4/30/92			Era 2: 5/1/92-4/30/94			Overall: 1/1/88-4/30/94						
Time Point	No. of Pts. <sup>4</sup>	Act. Rate (%)	Exp. Rate (%)	No. of Pts. <sup>4</sup>	Act. Rate (%)	Exp. Rate (%)	No. of Pts. <sup>4</sup>	No. <sup>1,5</sup> w/CFU	No. <sup>5</sup> Died	Act. Rate (%)	Exp. Rate (%)	Diff. (%)	p- <sup>2</sup> value
1 Month	10	90.0	93.4	3	100.0	95.0	13	13.0	1.0	92.3	93.8	-1.5	0.83
1 Year	10	90.0	82.5	3	66.7	86.3	13	13.0	2.0	84.6	83.4	1.2	0.90
Cond. <sup>3</sup> 3 Years	9	88.9	91.5				9	9.0	1.0	88.9	91.5	-2.6	0.78
3 Years <sup>3</sup>		80.0	75.5										

Notes: <sup>1</sup> No. with complete follow-up (CFU) is the total of the number of patients (grafts) whose status was known during the specified time interval.

<sup>2</sup> A p-value followed by an \* indicates that the difference is statistically significant at the 0.05 level.

<sup>3</sup> Conditional 3 year survival rates are the survival rates conditional on survival at 1 year. These are computed based on transplants between 1/1/88 and 4/30/92. Three year survival rates are computed by multiplying the 1 year and the conditional 3 year survival rates.

<sup>4</sup> The numbers of patients in Era 1 and Era 2 do not necessarily add up to the number of patients in the overall period, due to repeat transplants in different eras for some patients.

<sup>5</sup> No. w/CFU or No. Died may be fractional if patients received more than one transplant at the program.

Source: UNOS OPTN/Scientific Registry data.

Heart Transplants: January 1, 1988 - April 30, 1994  
Donor and Recipient Characteristics: Program and National Frequencies

George Washington University Medical Center - Washington DC  
Provider Number 090001 (DCGW)

		----- Program -----		--- National ---	
		Number	%	Number	%
Total Transplants and Percentages		14	100.0	12627	100.0
Donor Age	0-5	0	0.0	799	6.3
	6-10	0	0.0	274	2.2
	11-17	2	14.3	2029	16.1
	18-49	12	85.7	8923	70.7
	50-64	0	0.0	589	4.7
	65+	0	0.0	12	0.1
	Not Reported	0	0.0	1	0.0
Donor Gender	Female	2	14.3	3728	29.5
	Male	12	85.7	8899	70.5
Donor Race	White	10	71.4	10036	79.5
	Black	4	28.6	1263	10.0
	Hispanic	0	0.0	1143	9.1
	Asian	0	0.0	90	0.7
	Other	0	0.0	87	0.7
	Not Reported	0	0.0	8	0.1
Recipient Age	<1	0	0.0	549	4.3
	1-10	0	0.0	431	3.4
	11-17	0	0.0	358	2.8
	18-49	1	7.1	4493	35.6
	50-64	13	92.9	6373	50.5
	65+	0	0.0	423	3.3
Recipient Gender	Female	0	0.0	2761	21.9
	Male	14	100.0	9866	78.1
Recipient Race	White	13	92.9	10504	83.2
	Black	1	7.1	1206	9.6
	Hispanic	0	0.0	570	4.5
	Asian	0	0.0	125	1.0
	Other	0	0.0	216	1.7
	Not Reported	0	0.0	6	0.0

		----- Program -----		--- National ---	
		Number	%	Number	%
<b>Previous Heart Transplant</b>	No	13	92.9	12231	96.9
	Yes	1	7.1	344	2.7
	Not Reported	0	0.0	52	0.4
<b>On Ventilator at Transplant</b>	No	13	92.9	11892	94.2
	Yes	1	7.1	663	5.3
	Not Reported	0	0.0	72	0.6
<b>On VAD at Transplant</b>	No	14	100.0	12187	96.5
	Yes	0	0.0	366	2.9
	Not Reported	0	0.0	74	0.6
<b>On IABP at Transplant</b>	No	14	100.0	11754	93.1
	Yes	0	0.0	801	6.3
	Not Reported	0	0.0	72	0.6
<b>Diagnosis at Transplant</b>	Coronary Artery Disease	5	35.7	5222	41.4
	Cardiomyopathy	8	57.1	5779	45.8
	Eisenmenger's Syndrome/Congenital	0	0.0	933	7.4
	Valvular Heart Disease	0	0.0	476	3.8
	Other Diagnosis	0	0.0	183	1.4
	Not Reported	1	7.1	34	0.3
<b>Medical Condition at Transplant</b>	Not Hospitalized	5	35.7	5606	44.4
	Hospitalized	1	7.1	986	7.8
	In ICU	8	57.1	6019	47.7
	Not Reported	0	0.0	16	0.1
<b>Cold Ischemia Time</b>	Up to 2 hrs	2	14.3	3458	27.4
	> 2 - 2.5 hrs	2	14.3	2271	18.0
	> 2.5 - 3 hrs	1	7.1	2408	19.1
	> 3 - 3.5 hrs	2	14.3	1949	15.4
	> 3.5 hrs	7	50.0	2453	19.4
	Not Reported	0	0.0	88	0.7
<b>Year of Transplant</b>	1988	1	7.1	1649	13.1
	1989	2	14.3	1677	13.3
	1990	4	28.6	2071	16.4
	1991	4	28.6	2098	16.6
	1992	1	7.1	2145	17.0
	1993	2	14.3	2266	17.9
	1994	0	0.0	721	5.7

Source: UNOS OPTN/Scientific Registry data.

## Heart Transplants: January 1, 1988 - April 30, 1994

Survival Report for Washington Hospital Center - Washington DC  
Provider Number 090011 (DCWH)Graft Survival

	Era 1: 1/1/88-4/30/92			Era 2: 5/1/92-4/30/94			Overall: 1/1/88-4/30/94						
Time Point	No. of TX	Act. Rate (%)	Exp. Rate (%)	No. of TX	Act. Rate (%)	Exp. Rate (%)	No. of TX	No. <sup>1</sup> w/CFU	No. Failed	Act. Rate (%)	Exp. Rate (%)	Diff. (%)	p- <sup>2</sup> value
1 Month	47	93.6	92.0	22	95.5	92.1	69	69	4	94.2	92.1	2.1	0.50
1 Year	47	91.5	80.7	22	90.9	81.5	69	69	6	91.3	81.0	10.3	0.02*
Cond. <sup>3</sup> 3 Years	43	86.0	88.5				43	43	6	86.0	88.5	-2.4	0.61
3 Years <sup>3</sup>		78.7	71.4										

Patient Survival

	Era 1: 1/1/88-4/30/92			Era 2: 5/1/92-4/30/94			Overall: 1/1/88-4/30/94						
Time Point	No. of Pts. <sup>4</sup>	Act. Rate (%)	Exp. Rate (%)	No. of Pts. <sup>4</sup>	Act. Rate (%)	Exp. Rate (%)	No. of Pts. <sup>4</sup>	No. <sup>1,5</sup> w/CFU	No. <sup>5</sup> Died	Act. Rate (%)	Exp. Rate (%)	Diff. (%)	p- <sup>2</sup> value
1 Month	46	95.6	92.6	22	95.3	92.5	67	67.0	3.0	95.5	92.6	3.0	0.34
1 Year	46	93.4	81.7	22	90.7	82.3	67	67.0	5.0	92.5	81.9	10.7	0.02*
Cond. <sup>3</sup> 3 Years	43	88.4	89.1				43	43.0	5.0	88.4	89.1	-0.7	0.88
3 Years <sup>3</sup>		82.5	72.8										

Notes: <sup>1</sup> No. with complete follow-up (CFU) is the total of the number of patients (grafts) whose status was known during the specified time interval.

<sup>2</sup> A p-value followed by an \* indicates that the difference is statistically significant at the 0.05 level.

<sup>3</sup> Conditional 3 year survival rates are the survival rates conditional on survival at 1 year. These are computed based on transplants between 1/1/88 and 4/30/92. Three year survival rates are computed by multiplying the 1 year and the conditional 3 year survival rates.

<sup>4</sup> The numbers of patients in Era 1 and Era 2 do not necessarily add up to the number of patients in the overall period, due to repeat transplants in different eras for some patients.

<sup>5</sup> No. w/CFU or No. Died may be fractional if patients received more than one transplant at the program.

Source: UNOS OPTN/Scientific Registry data.

**Heart Transplants: January 1, 1988 - April 30, 1994**  
**Donor and Recipient Characteristics: Program and National Frequencies**

**Washington Hospital Center - Washington DC**  
**Provider Number 090011 (DCWH)**

		----- Program -----		--- National ---	
		Number	%	Number	%
<b>Total Transplants and Percentages</b>		<b>69</b>	<b>100.0</b>	<b>12627</b>	<b>100.0</b>
<b>Donor Age</b>	0-5	0	0.0	799	6.3
	6-10	0	0.0	274	2.2
	11-17	7	10.1	2029	16.1
	18-49	58	84.1	8923	70.7
	50-64	4	5.8	589	4.7
	65+	0	0.0	12	0.1
	Not Reported	0	0.0	1	0.0
<b>Donor Gender</b>	Female	27	39.1	3728	29.5
	Male	42	60.9	8899	70.5
<b>Donor Race</b>	White	47	68.1	10036	79.5
	Black	16	23.2	1263	10.0
	Hispanic	4	5.8	1143	9.1
	Asian	1	1.4	90	0.7
	Other	1	1.4	87	0.7
	Not Reported	0	0.0	8	0.1
<b>Recipient Age</b>	<1	0	0.0	549	4.3
	1-10	0	0.0	431	3.4
	11-17	1	1.4	358	2.8
	18-49	30	43.5	4493	35.6
	50-64	33	47.8	6373	50.5
	65+	5	7.2	423	3.3
<b>Recipient Gender</b>	Female	16	23.2	2761	21.9
	Male	53	76.8	9866	78.1
<b>Recipient Race</b>	White	45	65.2	10504	83.2
	Black	19	27.5	1206	9.6
	Hispanic	4	5.8	570	4.5
	Asian	0	0.0	125	1.0
	Other	1	1.4	216	1.7
	Not Reported	0	0.0	6	0.0

		----- Program -----		--- National ---	
		Number	%	Number	%
<b>Previous Heart Transplant</b>	No	64	92.8	12231	96.9
	Yes	5	7.2	344	2.7
	Not Reported	0	0.0	52	0.4
<b>On Ventilator at Transplant</b>	No	68	98.6	11892	94.2
	Yes	1	1.4	663	5.3
	Not Reported	0	0.0	72	0.6
<b>On VAD at Transplant</b>	No	66	95.7	12187	96.5
	Yes	3	4.3	366	2.9
	Not Reported	0	0.0	74	0.6
<b>On IABP at Transplant</b>	No	66	95.7	11754	93.1
	Yes	3	4.3	801	6.3
	Not Reported	0	0.0	72	0.6
<b>Diagnosis at Transplant</b>	Coronary Artery Disease	37	53.6	5222	41.4
	Cardiomyopathy	27	39.1	5779	45.8
	Eisenmenger's Syndrome/Congenital	0	0.0	933	7.4
	Valvular Heart Disease	5	7.2	476	3.8
	Other Diagnosis	0	0.0	183	1.4
	Not Reported	0	0.0	34	0.3
<b>Medical Condition at Transplant</b>	Not Hospitalized	19	27.5	5606	44.4
	Hospitalized	4	5.8	986	7.8
	In ICU	46	66.7	6019	47.7
	Not Reported	0	0.0	16	0.1
<b>Cold Ischemia Time</b>	Up to 2 hrs	36	52.2	3458	27.4
	> 2 - 2.5 hrs	13	18.8	2271	18.0
	> 2.5 - 3 hrs	7	10.1	2408	19.1
	> 3 - 3.5 hrs	4	5.8	1949	15.4
	> 3.5 hrs	6	8.7	2453	19.4
	Not Reported	3	4.3	88	0.7
<b>Year of Transplant</b>	1988	14	20.3	1649	13.1
	1989	6	8.7	1677	13.3
	1990	10	14.5	2071	16.4
	1991	13	18.8	2098	16.6
	1992	10	14.5	2145	17.0
	1993	13	18.8	2266	17.9
	1994	3	4.3	721	5.7

Source: UNOS OPTN/Scientific Registry data.



## Heart Transplants: January 1, 1988 - April 30, 1994

Survival Report for Jackson Memorial Hospital - Miami FL  
Provider Number 100022 (FLJM)Graft Survival

	Era 1: 1/1/88-4/30/92			Era 2: 5/1/92-4/30/94			Overall: 1/1/88-4/30/94						
Time Point	No. of TX	Act. Rate (%)	Exp. Rate (%)	No. of TX	Act. Rate (%)	Exp. Rate (%)	No. of TX	No. <sup>1</sup> w/CFU	No. Failed	Act. Rate (%)	Exp. Rate (%)	Diff. (%)	p- <sup>2</sup> value
1 Month	44	95.5	94.1	24	95.8	93.4	68	68	3	95.6	93.8	1.7	0.55
1 Year	44	79.5	84.3	24	83.3	84.7	68	68	13	80.9	84.4	-3.5	0.42
Cond. <sup>3</sup> 3 Years	35	94.3	88.8				35	35	2	94.3	88.8	5.5	0.29
3 Years <sup>3</sup>		75.0	74.8										

Patient Survival

	Era 1: 1/1/88-4/30/92			Era 2: 5/1/92-4/30/94			Overall: 1/1/88-4/30/94						
Time Point	No. of Pts. <sup>4</sup>	Act. Rate (%)	Exp. Rate (%)	No. of Pts. <sup>4</sup>	Act. Rate (%)	Exp. Rate (%)	No. of Pts. <sup>4</sup>	No. <sup>1,5</sup> w/CFU	No. <sup>5</sup> Died	Act. Rate (%)	Exp. Rate (%)	Diff. (%)	p- <sup>2</sup> value
1 Month	44	95.5	94.3	24	95.8	93.7	68	68.0	3.0	95.6	94.1	1.5	0.60
1 Year	44	79.5	84.9	24	83.3	85.2	68	68.0	13.0	80.9	85.0	-4.1	0.33
Cond. <sup>3</sup> 3 Years	35	94.3	89.3				35	35.0	2.0	94.3	89.3	5.0	0.33
3 Years <sup>3</sup>		75.0	75.8										

Notes: <sup>1</sup> No. with complete follow-up (CFU) is the total of the number of patients (grafts) whose status was known during the specified time interval.

<sup>2</sup> A p-value followed by an \* indicates that the difference is statistically significant at the 0.05 level.

<sup>3</sup> Conditional 3 year survival rates are the survival rates conditional on survival at 1 year. These are computed based on transplants between 1/1/88 and 4/30/92. Three year survival rates are computed by multiplying the 1 year and the conditional 3 year survival rates.

<sup>4</sup> The numbers of patients in Era 1 and Era 2 do not necessarily add up to the number of patients in the overall period, due to repeat transplants in different eras for some patients.

<sup>5</sup> No. w/CFU or No. Died may be fractional if patients received more than one transplant at the program.

Source: UNOS OPTN/Scientific Registry data.

**Heart Transplants: January 1, 1988 - April 30, 1994**  
**Donor and Recipient Characteristics: Program and National Frequencies**

**Jackson Memorial Hospital - Miami FL**  
**Provider Number 100022 (FLJM)**

		----- Program -----		--- National ---	
		Number	%	Number	%
<b>Total Transplants and Percentages</b>		<b>68</b>	<b>100.0</b>	<b>12627</b>	<b>100.0</b>
<b>Donor Age</b>	0-5	0	0.0	799	6.3
	6-10	0	0.0	274	2.2
	11-17	10	14.7	2029	16.1
	18-49	58	85.3	8923	70.7
	50-64	0	0.0	589	4.7
	65+	0	0.0	12	0.1
	Not Reported	0	0.0	1	0.0
<b>Donor Gender</b>	Female	11	16.2	3728	29.5
	Male	57	83.8	8899	70.5
<b>Donor Race</b>	White	37	54.4	10036	79.5
	Black	13	19.1	1263	10.0
	Hispanic	18	26.5	1143	9.1
	Asian	0	0.0	90	0.7
	Other	0	0.0	87	0.7
	Not Reported	0	0.0	8	0.1
<b>Recipient Age</b>	<1	0	0.0	549	4.3
	1-10	0	0.0	431	3.4
	11-17	4	5.9	358	2.8
	18-49	30	44.1	4493	35.6
	50-64	34	50.0	6373	50.5
	65+	0	0.0	423	3.3
<b>Recipient Gender</b>	Female	17	25.0	2761	21.9
	Male	51	75.0	9866	78.1
<b>Recipient Race</b>	White	38	55.9	10504	83.2
	Black	4	5.9	1206	9.6
	Hispanic	25	36.8	570	4.5
	Asian	0	0.0	125	1.0
	Other	1	1.5	216	1.7
	Not Reported	0	0.0	6	0.0

		----- Program -----		--- National ---	
		Number	%	Number	%
<b>Previous Heart Transplant</b>	No	68	100.0	12231	96.9
	Yes	0	0.0	344	2.7
	Not Reported	0	0.0	52	0.4
<b>On Ventilator at Transplant</b>	No	66	97.1	11892	94.2
	Yes	2	2.9	663	5.3
	Not Reported	0	0.0	72	0.6
<b>On VAD at Transplant</b>	No	68	100.0	12187	96.5
	Yes	0	0.0	366	2.9
	Not Reported	0	0.0	74	0.6
<b>On IABP at Transplant</b>	No	60	88.2	11754	93.1
	Yes	8	11.8	801	6.3
	Not Reported	0	0.0	72	0.6
<b>Diagnosis at Transplant</b>	Coronary Artery Disease	30	44.1	5222	41.4
	Cardiomyopathy	36	52.9	5779	45.8
	Eisenmenger's Syndrome/Congenital	1	1.5	933	7.4
	Valvular Heart Disease	1	1.5	476	3.8
	Other Diagnosis	0	0.0	183	1.4
	Not Reported	0	0.0	34	0.3
<b>Medical Condition at Transplant</b>	Not Hospitalized	38	55.9	5606	44.4
	Hospitalized	10	14.7	986	7.8
	In ICU	20	29.4	6019	47.7
	Not Reported	0	0.0	16	0.1
<b>Cold Ischemia Time</b>	Up to 2 hrs	21	30.9	3458	27.4
	> 2 - 2.5 hrs	16	23.5	2271	18.0
	> 2.5 - 3 hrs	14	20.6	2408	19.1
	> 3 - 3.5 hrs	10	14.7	1949	15.4
	> 3.5 hrs	7	10.3	2453	19.4
	Not Reported	0	0.0	88	0.7
<b>Year of Transplant</b>	1988	8	11.8	1649	13.1
	1989	9	13.2	1677	13.3
	1990	10	14.7	2071	16.4
	1991	12	17.6	2098	16.6
	1992	15	22.1	2145	17.0
	1993	12	17.6	2266	17.9
	1994	2	2.9	721	5.7

Source: UNOS OPTN/Scientific Registry data.

## Heart Transplants: January 1, 1988 - April 30, 1994

## Survival Report for St Joseph's Hospital - Tampa FL

Provider Number 100075 (FLSJ)

Graft Survival

	Era 1: 1/1/88-4/30/92			Era 2: 5/1/92-4/30/94			Overall: 1/1/88-4/30/94						
Time Point	No. of TX	Act. Rate (%)	Exp. Rate (%)	No. of TX	Act. Rate (%)	Exp. Rate (%)	No. of TX	No. <sup>1</sup> w/CFU	No. Failed	Act. Rate (%)	Exp. Rate (%)	Diff. (%)	p- <sup>2</sup> value
1 Month	5	100.0	95.5				5	5	0	100.0	95.5	4.5	0.81
1 Year	5	60.0	87.2				5	5	2	60.0	87.2	-27.2	0.13
Cond. <sup>3</sup> 3 Years	3	66.7	91.6				3	3	1	66.7	91.6	-24.9	0.23
3 Years <sup>3</sup>		40.0	79.9										

Patient Survival

	Era 1: 1/1/88-4/30/92			Era 2: 5/1/92-4/30/94			Overall: 1/1/88-4/30/94						
Time Point	No. of Pts. <sup>4</sup>	Act. Rate (%)	Exp. Rate (%)	No. of Pts. <sup>4</sup>	Act. Rate (%)	Exp. Rate (%)	No. of Pts. <sup>4</sup>	No. <sup>1,5</sup> w/CFU	No. <sup>5</sup> Died	Act. Rate (%)	Exp. Rate (%)	Diff. (%)	p- <sup>2</sup> value
1 Month	5	100.0	95.6				5	5.0	0.0	100.0	95.6	4.4	0.82
1 Year	5	60.0	87.6				5	5.0	2.0	60.0	87.6	-27.6	0.12
Cond. <sup>3</sup> 3 Years	3	66.7	92.0				3	3.0	1.0	66.7	92.0	-25.3	0.22
3 Years <sup>3</sup>		40.0	80.6										

Notes: <sup>1</sup> No. with complete follow-up (CFU) is the total of the number of patients (grafts) whose status was known during the specified time interval.

<sup>2</sup> A p-value followed by an \* indicates that the difference is statistically significant at the 0.05 level.

<sup>3</sup> Conditional 3 year survival rates are the survival rates conditional on survival at 1 year. These are computed based on transplants between 1/1/88 and 4/30/92. Three year survival rates are computed by multiplying the 1 year and the conditional 3 year survival rates.

<sup>4</sup> The numbers of patients in Era 1 and Era 2 do not necessarily add up to the number of patients in the overall period, due to repeat transplants in different eras for some patients.

<sup>5</sup> No. w/CFU or No. Died may be fractional if patients received more than one transplant at the program.

Source: UNOS OPTN Scientific Registry data.

**Heart Transplants: January 1, 1988 - April 30, 1994**  
**Donor and Recipient Characteristics: Program and National Frequencies**

**St Joseph's Hospital - Tampa FL**  
**Provider Number 100075 (FLSJ)**

		----- Program -----		--- National ---	
		Number	%	Number	%
<b>Total Transplants and Percentages</b>		<b>5</b>	<b>100.0</b>	<b>12627</b>	<b>100.0</b>
<b>Donor Age</b>	0-5	0	0.0	799	6.3
	6-10	0	0.0	274	2.2
	11-17	1	20.0	2029	16.1
	18-49	4	80.0	8923	70.7
	50-64	0	0.0	589	4.7
	65+	0	0.0	12	0.1
	Not Reported	0	0.0	1	0.0
<b>Donor Gender</b>	Female	0	0.0	3728	29.5
	Male	5	100.0	8899	70.5
<b>Donor Race</b>	White	4	80.0	10036	79.5
	Black	1	20.0	1263	10.0
	Hispanic	0	0.0	1143	9.1
	Asian	0	0.0	90	0.7
	Other	0	0.0	87	0.7
	Not Reported	0	0.0	8	0.1
<b>Recipient Age</b>	<1	0	0.0	549	4.3
	1-10	0	0.0	431	3.4
	11-17	0	0.0	358	2.8
	18-49	3	60.0	4493	35.6
	50-64	2	40.0	6373	50.5
	65+	0	0.0	423	3.3
<b>Recipient Gender</b>	Female	0	0.0	2761	21.9
	Male	5	100.0	9866	78.1
<b>Recipient Race</b>	White	5	100.0	10504	83.2
	Black	0	0.0	1206	9.6
	Hispanic	0	0.0	570	4.5
	Asian	0	0.0	125	1.0
	Other	0	0.0	216	1.7
	Not Reported	0	0.0	6	0.0

		----- Program -----		--- National ---	
		Number	%	Number	%
<b>Previous Heart Transplant</b>	No	5	100.0	12231	96.9
	Yes	0	0.0	344	2.7
	Not Reported	0	0.0	52	0.4
<b>On Ventilator at Transplant</b>	No	5	100.0	11892	94.2
	Yes	0	0.0	663	5.3
	Not Reported	0	0.0	72	0.6
<b>On VAD at Transplant</b>	No	5	100.0	12187	96.5
	Yes	0	0.0	366	2.9
	Not Reported	0	0.0	74	0.6
<b>On IABP at Transplant</b>	No	5	100.0	11754	93.1
	Yes	0	0.0	801	6.3
	Not Reported	0	0.0	72	0.6
<b>Diagnosis at Transplant</b>	Coronary Artery Disease	2	40.0	5222	41.4
	Cardiomyopathy	2	40.0	5779	45.8
	Eisenmenger's Syndrome/Congenital	0	0.0	933	7.4
	Valvular Heart Disease	1	20.0	476	3.8
	Other Diagnosis	0	0.0	183	1.4
	Not Reported	0	0.0	34	0.3
<b>Medical Condition at Transplant</b>	Not Hospitalized	5	100.0	5606	44.4
	Hospitalized	0	0.0	986	7.8
	In ICU	0	0.0	6019	47.7
	Not Reported	0	0.0	16	0.1
<b>Cold Ischemia Time</b>	Up to 2 hrs	5	100.0	3458	27.4
	> 2 - 2.5 hrs	0	0.0	2271	18.0
	> 2.5 - 3 hrs	0	0.0	2408	19.1
	> 3 - 3.5 hrs	0	0.0	1949	15.4
	> 3.5 hrs	0	0.0	2453	19.4
	Not Reported	0	0.0	88	0.7
<b>Year of Transplant</b>	1988	5	100.0	1649	13.1
	1989	0	0.0	1677	13.3
	1990	0	0.0	2071	16.4
	1991	0	0.0	2098	16.6
	1992	0	0.0	2145	17.0
	1993	0	0.0	2266	17.9
	1994	0	0.0	721	5.7

Source: UNOS OPTN/Scientific Registry data.



## Heart Transplants: January 1, 1988 - April 30, 1994

Survival Report for Tampa General Hospital - Tampa FL  
Provider Number 100128 (FLTG)Graft Survival

	Era 1: 1/1/88-4/30/92			Era 2: 5/1/92-4/30/94			Overall: 1/1/88-4/30/94						
Time Point	No. of TX	Act. Rate (%)	Exp. Rate (%)	No. of TX	Act. Rate (%)	Exp. Rate (%)	No. of TX	No. <sup>1</sup> w/CFU	No. Failed	Act. Rate (%)	Exp. Rate (%)	Diff. (%)	p- <sup>2</sup> value
1 Month	130	89.2	92.9	65	92.3	92.3	195	195	19	90.3	92.7	-2.4	0.18
1 Year	130	82.3	83.6	65	80.0	82.8	195	195	36	81.5	83.3	-1.8	0.50
Cond. <sup>3</sup> 3 Years	107	90.7	90.9				107	107	10	90.7	90.9	-0.2	0.94
3 Years <sup>3</sup>		74.6	75.9										

Patient Survival

	Era 1: 1/1/88-4/30/92			Era 2: 5/1/92-4/30/94			Overall: 1/1/88-4/30/94						
Time Point	No. of Pts. <sup>4</sup>	Act. Rate (%)	Exp. Rate (%)	No. of Pts. <sup>4</sup>	Act. Rate (%)	Exp. Rate (%)	No. of Pts. <sup>4</sup>	No. <sup>1,5</sup> w/CFU	No. <sup>5</sup> Died	Act. Rate (%)	Exp. Rate (%)	Diff. (%)	p- <sup>2</sup> value
1 Month	129	89.1	93.2	65	92.2	92.7	192	192.0	19.0	90.1	93.1	-3.0	0.10
1 Year	129	82.4	84.2	65	80.5	83.6	192	192.0	35.0	81.8	84.0	-2.2	0.39
Cond. <sup>3</sup> 3 Years	107	91.6	91.2				107	107.0	9.0	91.6	91.2	0.3	0.90
3 Years <sup>3</sup>		75.5	76.8										

Notes: <sup>1</sup> No. with complete follow-up (CFU) is the total of the number of patients (grafts) whose status was known during the specified time interval.

<sup>2</sup> A p-value followed by an \* indicates that the difference is statistically significant at the 0.05 level.

<sup>3</sup> Conditional 3 year survival rates are the survival rates conditional on survival at 1 year. These are computed based on transplants between 1/1/88 and 4/30/92. Three year survival rates are computed by multiplying the 1 year and the conditional 3 year survival rates.

<sup>4</sup> The numbers of patients in Era 1 and Era 2 do not necessarily add up to the number of patients in the overall period, due to repeat transplants in different eras for some patients.

<sup>5</sup> No. w/CFU or No. Died may be fractional if patients received more than one transplant at the program.

Source: UNOS OPTN/Scientific Registry data.

**Heart Transplants: January 1, 1988 - April 30, 1994**  
**Donor and Recipient Characteristics: Program and National Frequencies**

**Tampa General Hospital - Tampa FL**  
**Provider Number 100128 (FLTG)**

		----- Program -----		--- National ---	
		Number	%	Number	%
<b>Total Transplants and Percentages</b>		<b>195</b>	<b>100.0</b>	<b>12627</b>	<b>100.0</b>
<b>Donor Age</b>	0-5	0	0.0	799	6.3
	6-10	0	0.0	274	2.2
	11-17	33	16.9	2029	16.1
	18-49	149	76.4	8923	70.7
	50-64	13	6.7	589	4.7
	65+	0	0.0	12	0.1
	Not Reported	0	0.0	1	0.0
<b>Donor Gender</b>	Female	50	25.6	3728	29.5
	Male	145	74.4	8899	70.5
<b>Donor Race</b>	White	174	89.2	10036	79.5
	Black	11	5.6	1263	10.0
	Hispanic	10	5.1	1143	9.1
	Asian	0	0.0	90	0.7
	Other	0	0.0	87	0.7
	Not Reported	0	0.0	8	0.1
<b>Recipient Age</b>	<1	0	0.0	549	4.3
	1-10	0	0.0	431	3.4
	11-17	0	0.0	358	2.8
	18-49	66	33.8	4493	35.6
	50-64	123	63.1	6373	50.5
	65+	6	3.1	423	3.3
<b>Recipient Gender</b>	Female	28	14.4	2761	21.9
	Male	167	85.6	9866	78.1
<b>Recipient Race</b>	White	169	86.7	10504	83.2
	Black	10	5.1	1206	9.6
	Hispanic	16	8.2	570	4.5
	Asian	0	0.0	125	1.0
	Other	0	0.0	216	1.7
	Not Reported	0	0.0	6	0.0

		----- Program -----		--- National ---	
		Number	%	Number	%
<b>Previous Heart Transplant</b>	No	190	97.4	12231	96.9
	Yes	5	2.6	344	2.7
	Not Reported	0	0.0	52	0.4
<b>On Ventilator at Transplant</b>	No	185	94.9	11892	94.2
	Yes	10	5.1	663	5.3
	Not Reported	0	0.0	72	0.6
<b>On VAD at Transplant</b>	No	190	97.4	12187	96.5
	Yes	5	2.6	366	2.9
	Not Reported	0	0.0	74	0.6
<b>On IABP at Transplant</b>	No	182	93.3	11754	93.1
	Yes	13	6.7	801	6.3
	Not Reported	0	0.0	72	0.6
<b>Diagnosis at Transplant</b>	Coronary Artery Disease	126	64.6	5222	41.4
	Cardiomyopathy	62	31.8	5779	45.8
	Eisenmenger's Syndrome/Congenital	2	1.0	933	7.4
	Valvular Heart Disease	5	2.6	476	3.8
	Other Diagnosis	0	0.0	183	1.4
	Not Reported	0	0.0	34	0.3
<b>Medical Condition at Transplant</b>	Not Hospitalized	122	62.6	5606	44.4
	Hospitalized	18	9.2	986	7.8
	In ICU	55	28.2	6019	47.7
	Not Reported	0	0.0	16	0.1
<b>Cold Ischemia Time</b>	Up to 2 hrs	78	40.0	3458	27.4
	> 2 - 2.5 hrs	57	29.2	2271	18.0
	> 2.5 - 3 hrs	34	17.4	2408	19.1
	> 3 - 3.5 hrs	20	10.3	1949	15.4
	> 3.5 hrs	6	3.1	2453	19.4
	Not Reported	0	0.0	88	0.7
<b>Year of Transplant</b>	1988	14	7.2	1649	13.1
	1989	29	14.9	1677	13.3
	1990	36	18.5	2071	16.4
	1991	34	17.4	2098	16.6
	1992	35	17.9	2145	17.0
	1993	36	18.5	2266	17.9
	1994	11	5.6	721	5.7

Source: UNOS OPTN/Scientific Registry data.

**Response From: Tampa General Hospital  
P. O. Box 1289, Tampa, FL 33601  
Provider Number 100128 (FLTG)**

May 6, 1997

Florida's first heart transplant was performed at Tampa General Healthcare on June 6, 1985. This heart recipient lived 11 years following the transplant procedure. The second patient was transplanted June 21, 1985 and is still living. In total, 314 patients have received heart transplants at Tampa General Healthcare.

The overall one year patient survival rate for the 195 patients transplanted during the six year reporting period was 81.8%. The three year survival rate for the 129 patients transplanted during the first era was 75.5%. UNOS also assessed the three year survival of patients who have exceeded one year post transplant. The survival rate reported for this group of patients was 91.6%. The differences between the program's actual and expected survival outcomes in all categories were not statistically significant.

The Tampa General Healthcare's Cardiac Transplant Program is well into its second decade of service. The cardiac program is part of a multi-organ transplant service and is affiliated with one of the leading procurement organizations in the nation. Cardiologists and surgeons are dedicated to the advancement of transplantation care and transplantation alternatives. Tampa General's program cardiologists and immunologists participate in numerous local and national research projects. Program surgeons bridge patients to transplant with the ventricular assist systems of Novacor and Abiomed. Left ventricular reduction surgery (Batista) is also performed by program surgeons as a possible bridge or alternative to transplantation.

Currently the program is among the twenty most active centers in the nation, allowing the opportunity to participate in the Cardiac Transplant Research working group. Tampa General Healthcare's Transplant Program team members are committed to the care of patients referred for services and to expanding the knowledge of transplant medicine.

Nicholas Sears, M.D.  
Cardiac Transplant Surgical Director



## Heart Transplants: January 1, 1988 - April 30, 1994

Survival Report for Tallahassee Memorial Reg Medical Center - Tallahassee FL  
Provider Number 100135 (FLTO)Graft Survival

	Era 1: 1/1/88-4/30/92			Era 2: 5/1/92-4/30/94			Overall: 1/1/88-4/30/94						
Time Point	No. of TX	Act. Rate (%)	Exp. Rate (%)	No. of TX	Act. Rate (%)	Exp. Rate (%)	No. of TX	No. <sup>1</sup> w/CFU	No. Failed	Act. Rate (%)	Exp. Rate (%)	Diff. (%)	p- <sup>2</sup> value
1 Month	36	80.6	93.0	15	100.0	92.9	51	51	7	86.3	93.0	-6.7	0.06
1 Year	36	69.4	83.1	15	93.3	84.2	51	51	12	76.5	83.4	-7.0	0.17
Cond. <sup>3</sup> 3 Years	25	92.0	90.9				25	25	2	92.0	90.9	1.1	0.85
3 Years <sup>3</sup>		63.9	75.6										

Patient Survival

	Era 1: 1/1/88-4/30/92			Era 2: 5/1/92-4/30/94			Overall: 1/1/88-4/30/94						
Time Point	No. of Pts. <sup>4</sup>	Act. Rate (%)	Exp. Rate (%)	No. of Pts. <sup>4</sup>	Act. Rate (%)	Exp. Rate (%)	No. of Pts. <sup>4</sup>	No. <sup>1,5</sup> w/CFU	No. <sup>5</sup> Died	Act. Rate (%)	Exp. Rate (%)	Diff. (%)	p- <sup>2</sup> value
1 Month	35	80.0	93.4	15	100.0	93.1	50	50.0	7.0	86.0	93.3	-7.3	0.04*
1 Year	35	71.4	83.9	15	93.3	84.6	50	50.0	11.0	78.0	84.1	-6.1	0.23
Cond. <sup>3</sup> 3 Years	25	92.0	91.2				25	25.0	2.0	92.0	91.2	0.8	0.89
3 Years <sup>3</sup>		65.7	76.5										

Notes: <sup>1</sup> No. with complete follow-up (CFU) is the total of the number of patients (grafts) whose status was known during the specified time interval.

<sup>2</sup> A p-value followed by an \* indicates that the difference is statistically significant at the 0.05 level.

<sup>3</sup> Conditional 3 year survival rates are the survival rates conditional on survival at 1 year. These are computed based on transplants between 1/1/88 and 4/30/92. Three year survival rates are computed by multiplying the 1 year and the conditional 3 year survival rates.

<sup>4</sup> The numbers of patients in Era 1 and Era 2 do not necessarily add up to the number of patients in the overall period, due to repeat transplants in different eras for some patients.

<sup>5</sup> No. w/CFU or No. Died may be fractional if patients received more than one transplant at the program.

Source: UNOS OPTN/Scientific Registry data.

**Heart Transplants: January 1, 1988 - April 30, 1994**  
**Donor and Recipient Characteristics: Program and National Frequencies**

**Tallahassee Memorial Reg Medical Center - Tallahassee FL**  
**Provider Number 100135 (FLTO)**

		----- Program -----		--- National ---	
		Number	%	Number	%
<b>Total Transplants and Percentages</b>		<b>51</b>	<b>100.0</b>	<b>12627</b>	<b>100.0</b>
<b>Donor Age</b>	0-5	0	0.0	799	6.3
	6-10	0	0.0	274	2.2
	11-17	6	11.8	2029	16.1
	18-49	45	88.2	8923	70.7
	50-64	0	0.0	589	4.7
	65+	0	0.0	12	0.1
	Not Reported	0	0.0	1	0.0
<b>Donor Gender</b>	Female	10	19.6	3728	29.5
	Male	41	80.4	8899	70.5
<b>Donor Race</b>	White	45	88.2	10036	79.5
	Black	3	5.9	1263	10.0
	Hispanic	2	3.9	1143	9.1
	Asian	0	0.0	90	0.7
	Other	1	2.0	87	0.7
	Not Reported	0	0.0	8	0.1
<b>Recipient Age</b>	<1	0	0.0	549	4.3
	1-10	0	0.0	431	3.4
	11-17	0	0.0	358	2.8
	18-49	23	45.1	4493	35.6
	50-64	26	51.0	6373	50.5
	65+	2	3.9	423	3.3
<b>Recipient Gender</b>	Female	7	13.7	2761	21.9
	Male	44	86.3	9866	78.1
<b>Recipient Race</b>	White	44	86.3	10504	83.2
	Black	7	13.7	1206	9.6
	Hispanic	0	0.0	570	4.5
	Asian	0	0.0	125	1.0
	Other	0	0.0	216	1.7
	Not Reported	0	0.0	6	0.0



		----- Program -----		--- National ---	
		Number	%	Number	%
<b>Previous Heart Transplant</b>	No	49	96.1	12231	96.9
	Yes	2	3.9	344	2.7
	Not Reported	0	0.0	52	0.4
<b>On Ventilator at Transplant</b>	No	49	96.1	11892	94.2
	Yes	2	3.9	663	5.3
	Not Reported	0	0.0	72	0.6
<b>On VAD at Transplant</b>	No	51	100.0	12187	96.5
	Yes	0	0.0	366	2.9
	Not Reported	0	0.0	74	0.6
<b>On IABP at Transplant</b>	No	49	96.1	11754	93.1
	Yes	2	3.9	801	6.3
	Not Reported	0	0.0	72	0.6
<b>Diagnosis at Transplant</b>	Coronary Artery Disease	28	54.9	5222	41.4
	Cardiomyopathy	20	39.2	5779	45.8
	Eisenmenger's Syndrome/Congenital	0	0.0	933	7.4
	Valvular Heart Disease	2	3.9	476	3.8
	Other Diagnosis	1	2.0	183	1.4
	Not Reported	0	0.0	34	0.3
<b>Medical Condition at Transplant</b>	Not Hospitalized	7	13.7	5606	44.4
	Hospitalized	0	0.0	986	7.8
	In ICU	44	86.3	6019	47.7
	Not Reported	0	0.0	16	0.1
<b>Cold Ischemia Time</b>	Up to 2 hrs	4	7.8	3458	27.4
	> 2 - 2.5 hrs	21	41.2	2271	18.0
	> 2.5 - 3 hrs	19	37.3	2408	19.1
	> 3 - 3.5 hrs	6	11.8	1949	15.4
	> 3.5 hrs	1	2.0	2453	19.4
	Not Reported	0	0.0	88	0.7
<b>Year of Transplant</b>	1988	9	17.6	1649	13.1
	1989	10	19.6	1677	13.3
	1990	7	13.7	2071	16.4
	1991	8	15.7	2098	16.6
	1992	6	11.8	2145	17.0
	1993	8	15.7	2266	17.9
	1994	3	5.9	721	5.7

Source: UNOS OPTN/Scientific Registry data.

**Response From: Tallahassee Memorial Regional Medical Center  
1401 Centerville Road, Tallahassee, FL 32308  
Provider Number 100135 (FLTO)**

April 30, 1997

Tallahassee Memorial Regional Medical Center's heart transplant program was begun in 1985. From January 1, 1988 to April 30, 1994, Tallahassee Memorial Regional Medical Center has performed 51 transplants with an overall transplant survival rating of 76.5 per cent at one year.

Since the programs inception, the one month and one year survival rate have continued to rise. The increase in survival rates in the 5/1/92-4/30/94 (Era 2) period reflects our commitment to continuous quality improvement. Our one month (100 percent) and one year (93.3 percent) survival rate in Era 2 exceeded the UNOS expected survival statistics for one month and one year survival (92.9 percent and 84.2 percent respectively)

During the overall period analyzed by UNOS, the percentage of individuals requiring preoperative intensive care with inotropic support was nearly double that of the national percentage (86.3% vs. 47.7%). Also, our program transplanted a greater percentage of older individuals and a greater percentage of individuals with coronary artery disease than the national percentages. Both populations are consistent with a higher risk profile

Tallahassee Memorial Regional Medical Center met stringent criteria in order to become a member of UNOS. We are proud of our transplant program and will endeavor to continue providing the finest patient care available.

Thomas J. Bixler, M.D.  
Director, Heart Transplant Program



## Heart Transplants: January 1, 1988 - April 30, 1994

Survival Report for Shands Hospital - Gainesville FL  
Provider Number 100113 (FLUF)Graft Survival

	Era 1: 1/1/88-4/30/92			Era 2: 5/1/92-4/30/94			Overall: 1/1/88-4/30/94						
Time Point	No. of TX	Act. Rate (%)	Exp. Rate (%)	No. of TX	Act. Rate (%)	Exp. Rate (%)	No. of TX	No. <sup>1</sup> w/CFU	No. Failed	Act. Rate (%)	Exp. Rate (%)	Diff. (%)	p- <sup>2</sup> value
1 Month	93	93.5	89.4	78	91.0	92.7	171	171	13	92.4	90.9	1.5	0.48
1 Year	93	83.9	78.8	78	81.9	82.9	171	166	29	83.0	80.6	2.3	0.43
Cond. <sup>3</sup> 3 Years	78	93.6	89.9				78	75	5	93.6	89.9	3.7	0.28
3 Years <sup>3</sup>		78.5	70.8										

Patient Survival

	Era 1: 1/1/88-4/30/92			Era 2: 5/1/92-4/30/94			Overall: 1/1/88-4/30/94						
Time Point	No. of Pts. <sup>4</sup>	Act. Rate (%)	Exp. Rate (%)	No. of Pts. <sup>4</sup>	Act. Rate (%)	Exp. Rate (%)	No. of Pts. <sup>4</sup>	No. <sup>1,5</sup> w/CFU	No. <sup>5</sup> Died	Act. Rate (%)	Exp. Rate (%)	Diff. (%)	p- <sup>2</sup> value
1 Month	91	94.5	90.4	78	91.0	93.0	169	169.0	12.0	92.9	91.6	1.3	0.53
1 Year	91	85.7	80.1	78	81.9	83.5	169	164.0	27.0	84.0	81.7	2.3	0.43
Cond. <sup>3</sup> 3 Years	78	93.6	90.3				78	75.0	5.0	93.6	90.3	3.3	0.32
3 Years <sup>3</sup>		80.2	72.4										

Notes: <sup>1</sup> No. with complete follow-up (CFU) is the total of the number of patients (grafts) whose status was known during the specified time interval.

<sup>2</sup> A p-value followed by an \* indicates that the difference is statistically significant at the 0.05 level.

<sup>3</sup> Conditional 3 year survival rates are the survival rates conditional on survival at 1 year. These are computed based on transplants between 1/1/88 and 4/30/92. Three year survival rates are computed by multiplying the 1 year and the conditional 3 year survival rates.

<sup>4</sup> The numbers of patients in Era 1 and Era 2 do not necessarily add up to the number of patients in the overall period, due to repeat transplants in different eras for some patients.

<sup>5</sup> No. w/CFU or No. Died may be fractional if patients received more than one transplant at the program.

Source: UNOS OPTN/Scientific Registry data.

**Heart Transplants: January 1, 1988 - April 30, 1994**  
**Donor and Recipient Characteristics: Program and National Frequencies**

**Shands Hospital - Gainesville FL**  
**Provider Number 100113 (FLUF)**

		----- Program -----		--- National ---	
		Number	%	Number	%
<b>Total Transplants and Percentages</b>		<b>171</b>	<b>100.0</b>	<b>12627</b>	<b>100.0</b>
<b>Donor Age</b>	0-5	12	7.0	799	6.3
	6-10	7	4.1	274	2.2
	11-17	22	12.9	2029	16.1
	18-49	125	73.1	8923	70.7
	50-64	5	2.9	589	4.7
	65+	0	0.0	12	0.1
	Not Reported	0	0.0	1	0.0
<b>Donor Gender</b>	Female	57	33.3	3728	29.5
	Male	114	66.7	8899	70.5
<b>Donor Race</b>	White	145	84.8	10036	79.5
	Black	17	9.9	1263	10.0
	Hispanic	8	4.7	1143	9.1
	Asian	1	0.6	90	0.7
	Other	0	0.0	87	0.7
	Not Reported	0	0.0	8	0.1
<b>Recipient Age</b>	<1	2	1.2	549	4.3
	1-10	15	8.8	431	3.4
	11-17	13	7.6	358	2.8
	18-49	39	22.8	4493	35.6
	50-64	97	56.7	6373	50.5
	65+	5	2.9	423	3.3
<b>Recipient Gender</b>	Female	37	21.6	2761	21.9
	Male	134	78.4	9866	78.1
<b>Recipient Race</b>	White	140	81.9	10504	83.2
	Black	22	12.9	1206	9.6
	Hispanic	5	2.9	570	4.5
	Asian	1	0.6	125	1.0
	Other	3	1.8	216	1.7
	Not Reported	0	0.0	6	0.0

		---- Program ----		--- National ---	
		Number	%	Number	%
<b>Previous Heart Transplant</b>	No	167	97.7	12231	96.9
	Yes	4	2.3	344	2.7
	Not Reported	0	0.0	52	0.4
<b>On Ventilator at Transplant</b>	No	156	91.2	11892	94.2
	Yes	15	8.8	663	5.3
	Not Reported	0	0.0	72	0.6
<b>On VAD at Transplant</b>	No	169	98.8	12187	96.5
	Yes	2	1.2	366	2.9
	Not Reported	0	0.0	74	0.6
<b>On IABP at Transplant</b>	No	161	94.2	11754	93.1
	Yes	10	5.8	801	6.3
	Not Reported	0	0.0	72	0.6
<b>Diagnosis at Transplant</b>	Coronary Artery Disease	90	52.6	5222	41.4
	Cardiomyopathy	62	36.3	5779	45.8
	Eisenmenger's Syndrome/Congenital	10	5.8	933	7.4
	Valvular Heart Disease	7	4.1	476	3.8
	Other Diagnosis	2	1.2	183	1.4
	Not Reported	0	0.0	34	0.3
<b>Medical Condition at Transplant</b>	Not Hospitalized	96	56.1	5606	44.4
	Hospitalized	4	2.3	986	7.8
	In ICU	71	41.5	6019	47.7
	Not Reported	0	0.0	16	0.1
<b>Cold Ischemia Time</b>	Up to 2 hrs	11	6.4	3458	27.4
	> 2 - 2.5 hrs	34	19.9	2271	18.0
	> 2.5 - 3 hrs	60	35.1	2408	19.1
	> 3 - 3.5 hrs	40	23.4	1949	15.4
	> 3.5 hrs	26	15.2	2453	19.4
	Not Reported	0	0.0	88	0.7
<b>Year of Transplant</b>	1988	14	8.2	1649	13.1
	1989	19	11.1	1677	13.3
	1990	21	12.3	2071	16.4
	1991	28	16.4	2098	16.6
	1992	36	21.1	2145	17.0
	1993	38	22.2	2266	17.9
	1994	15	8.8	721	5.7

Source: UNOS OPTN/Scientific Registry data.

## Heart Transplants: January 1, 1988 - April 30, 1994

Survival Report for Eggleston Children's Hospital - Atlanta GA  
Provider Number 110196 (GAEH)Graft Survival

	Era 1: 1/1/88-4/30/92			Era 2: 5/1/92-4/30/94			Overall: 1/1/88-4/30/94						
Time Point	No. of TX	Act. Rate (%)	Exp. Rate (%)	No. of TX	Act. Rate (%)	Exp. Rate (%)	No. of TX	No. <sup>1</sup> w/CFU	No. Failed	Act. Rate (%)	Exp. Rate (%)	Diff. (%)	p- <sup>2</sup> value
1 Month	18	88.9	88.4	15	93.3	89.1	33	33	3	90.9	88.7	2.2	0.68
1 Year	18	77.8	78.2	15	80.0	77.4	33	33	7	78.8	77.8	1.0	0.89
Cond. <sup>3</sup> 3 Years	14	85.7	88.3				14	14	2	85.7	88.3	-2.5	0.76
3 Years <sup>3</sup>		66.7	69.0										

Patient Survival

	Era 1: 1/1/88-4/30/92			Era 2: 5/1/92-4/30/94			Overall: 1/1/88-4/30/94						
Time Point	No. of Pts. <sup>4</sup>	Act. Rate (%)	Exp. Rate (%)	No. of Pts. <sup>4</sup>	Act. Rate (%)	Exp. Rate (%)	No. of Pts. <sup>4</sup>	No. <sup>1,5</sup> w/CFU	No. <sup>5</sup> Died	Act. Rate (%)	Exp. Rate (%)	Diff. (%)	p- <sup>2</sup> value
1 Month	18	88.9	88.8	15	93.3	89.4	33	33.0	3.0	90.9	89.1	1.8	0.73
1 Year	18	77.8	79.2	15	80.0	78.3	33	33.0	7.0	78.8	78.8	0.0	1.00
Cond. <sup>3</sup> 3 Years	14	85.7	88.8				14	14.0	2.0	85.7	88.8	-3.1	0.71
3 Years <sup>3</sup>		66.7	70.3										

Notes: <sup>1</sup> No. with complete follow-up (CFU) is the total of the number of patients (grafts) whose status was known during the specified time interval.

<sup>2</sup> A p-value followed by an \* indicates that the difference is statistically significant at the 0.05 level.

<sup>3</sup> Conditional 3 year survival rates are the survival rates conditional on survival at 1 year. These are computed based on transplants between 1/1/88 and 4/30/92. Three year survival rates are computed by multiplying the 1 year and the conditional 3 year survival rates.

<sup>4</sup> The numbers of patients in Era 1 and Era 2 do not necessarily add up to the number of patients in the overall period, due to repeat transplants in different eras for some patients.

<sup>5</sup> No. w/CFU or No. Died may be fractional if patients received more than one transplant at the program.

Source: UNOS OPTN/Scientific Registry data.



**Heart Transplants: January 1, 1988 - April 30, 1994**  
**Donor and Recipient Characteristics: Program and National Frequencies**

**Egleston Children's Hospital - Atlanta GA**  
**Provider Number 110196 (GAEH)**

		----- Program -----		--- National ---	
		Number	%	Number	%
<b>Total Transplants and Percentages</b>		<b>33</b>	<b>100.0</b>	<b>12627</b>	<b>100.0</b>
<b>Donor Age</b>	0-5	13	39.4	799	6.3
	6-10	10	30.3	274	2.2
	11-17	4	12.1	2029	16.1
	18-49	6	18.2	8923	70.7
	50-64	0	0.0	589	4.7
	65+	0	0.0	12	0.1
	Not Reported	0	0.0	1	0.0
<b>Donor Gender</b>	Female	13	39.4	3728	29.5
	Male	20	60.6	8899	70.5
<b>Donor Race</b>	White	27	81.8	10036	79.5
	Black	3	9.1	1263	10.0
	Hispanic	2	6.1	1143	9.1
	Asian	0	0.0	90	0.7
	Other	1	3.0	87	0.7
	Not Reported	0	0.0	8	0.1
<b>Recipient Age</b>	<1	7	21.2	549	4.3
	1-10	12	36.4	431	3.4
	11-17	14	42.4	358	2.8
	18-49	0	0.0	4493	35.6
	50-64	0	0.0	6373	50.5
	65+	0	0.0	423	3.3
<b>Recipient Gender</b>	Female	18	54.5	2761	21.9
	Male	15	45.5	9866	78.1
<b>Recipient Race</b>	White	20	60.6	10504	83.2
	Black	13	39.4	1206	9.6
	Hispanic	0	0.0	570	4.5
	Asian	0	0.0	125	1.0
	Other	0	0.0	216	1.7
	Not Reported	0	0.0	6	0.0

		----- Program -----		--- National ---	
		Number	%	Number	%
<b>Previous Heart Transplant</b>	No	32	97.0	12231	96.9
	Yes	0	0.0	344	2.7
	Not Reported	1	3.0	52	0.4
<b>On Ventilator at Transplant</b>	No	29	87.9	11892	94.2
	Yes	3	9.1	663	5.3
	Not Reported	1	3.0	72	0.6
<b>On VAD at Transplant</b>	No	32	97.0	12187	96.5
	Yes	1	3.0	366	2.9
	Not Reported	0	0.0	74	0.6
<b>On IABP at Transplant</b>	No	32	97.0	11754	93.1
	Yes	0	0.0	801	6.3
	Not Reported	1	3.0	72	0.6
<b>Diagnosis at Transplant</b>	Coronary Artery Disease	0	0.0	5222	41.4
	Cardiomyopathy	11	33.3	5779	45.8
	Eisenmenger's Syndrome/Congenital	20	60.6	933	7.4
	Valvular Heart Disease	1	3.0	476	3.8
	Other Diagnosis	1	3.0	183	1.4
	Not Reported	0	0.0	34	0.3
<b>Medical Condition at Transplant</b>	Not Hospitalized	15	45.5	5606	44.4
	Hospitalized	0	0.0	986	7.8
	In ICU	17	51.5	6019	47.7
	Not Reported	1	3.0	16	0.1
<b>Cold Ischemia Time</b>	Up to 2 hrs	10	30.3	3458	27.4
	> 2 - 2.5 hrs	9	27.3	2271	18.0
	> 2.5 - 3 hrs	5	15.2	2408	19.1
	> 3 - 3.5 hrs	2	6.1	1949	15.4
	> 3.5 hrs	6	18.2	2453	19.4
	Not Reported	1	3.0	88	0.7
<b>Year of Transplant</b>	1988	4	12.1	1649	13.1
	1989	3	9.1	1677	13.3
	1990	6	18.2	2071	16.4
	1991	4	12.1	2098	16.6
	1992	7	21.2	2145	17.0
	1993	6	18.2	2266	17.9
	1994	3	9.1	721	5.7

Source: UNOS OPTN/Scientific Registry data.

## Heart Transplants: January 1, 1988 - April 30, 1994

Survival Report for Emory University Hospital - Atlanta GA  
Provider Number 110010 (GAEM)Graft Survival

	Era 1: 1/1/88-4/30/92			Era 2: 5/1/92-4/30/94			Overall: 1/1/88-4/30/94						
Time Point	No. of TX	Act. Rate (%)	Exp. Rate (%)	No. of TX	Act. Rate (%)	Exp. Rate (%)	No. of TX	No. <sup>1</sup> w/CFU	No. Failed	Act. Rate (%)	Exp. Rate (%)	Diff. (%)	p- <sup>2</sup> value
1 Month	95	95.8	93.3	54	96.3	94.2	149	149	6	96.0	93.6	2.4	0.23
1 Year	95	91.6	84.1	54	92.6	85.5	149	149	12	91.9	84.6	7.3	0.01*
Cond. <sup>3</sup> 3 Years	87	94.2	90.4				87	85	5	94.2	90.4	3.9	0.22
3 Years <sup>3</sup>		86.3	76.0										

Patient Survival

	Era 1: 1/1/88-4/30/92			Era 2: 5/1/92-4/30/94			Overall: 1/1/88-4/30/94						
Time Point	No. of Pts. <sup>4</sup>	Act. Rate (%)	Exp. Rate (%)	No. of Pts. <sup>4</sup>	Act. Rate (%)	Exp. Rate (%)	No. of Pts. <sup>4</sup>	No. <sup>1,5</sup> w/CFU	No. <sup>5</sup> Died	Act. Rate (%)	Exp. Rate (%)	Diff. (%)	p- <sup>2</sup> value
1 Month	95	95.8	93.6	54	96.3	94.5	149	149.0	6.0	96.0	93.9	2.1	0.28
1 Year	95	91.6	84.7	54	92.6	86.0	149	149.0	12.0	91.9	85.1	6.8	0.02*
Cond. <sup>3</sup> 3 Years	87	94.2	90.8				87	85.0	5.0	94.2	90.8	3.4	0.26
3 Years <sup>3</sup>		86.3	76.9										

Notes: <sup>1</sup> No. with complete follow-up (CFU) is the total of the number of patients (grafts) whose status was known during the specified time interval.

<sup>2</sup> A p-value followed by an \* indicates that the difference is statistically significant at the 0.05 level.

<sup>3</sup> Conditional 3 year survival rates are the survival rates conditional on survival at 1 year. These are computed based on transplants between 1/1/88 and 4/30/92. Three year survival rates are computed by multiplying the 1 year and the conditional 3 year survival rates.

<sup>4</sup> The numbers of patients in Era 1 and Era 2 do not necessarily add up to the number of patients in the overall period, due to repeat transplants in different eras for some patients.

<sup>5</sup> No. w/CFU or No. Died may be fractional if patients received more than one transplant at the program.

Source: UNOS OPTN/Scientific Registry data.

**Heart Transplants: January 1, 1988 - April 30, 1994**  
**Donor and Recipient Characteristics: Program and National Frequencies**

**Emory University Hospital - Atlanta GA**  
**Provider Number 110010 (GAEM)**

		----- Program -----		--- National ---	
		Number	%	Number	%
<b>Total Transplants and Percentages</b>		<b>149</b>	<b>100.0</b>	<b>12627</b>	<b>100.0</b>
<b>Donor Age</b>	0-5	1	0.7	799	6.3
	6-10	1	0.7	274	2.2
	11-17	27	18.1	2029	16.1
	18-49	112	75.2	8923	70.7
	50-64	8	5.4	589	4.7
	65+	0	0.0	12	0.1
	Not Reported	0	0.0	1	0.0
<b>Donor Gender</b>	Female	43	28.9	3728	29.5
	Male	106	71.1	8899	70.5
<b>Donor Race</b>	White	121	81.2	10036	79.5
	Black	26	17.4	1263	10.0
	Hispanic	1	0.7	1143	9.1
	Asian	0	0.0	90	0.7
	Other	1	0.7	87	0.7
	Not Reported	0	0.0	8	0.1
<b>Recipient Age</b>	<1	0	0.0	549	4.3
	1-10	0	0.0	431	3.4
	11-17	0	0.0	358	2.8
	18-49	74	49.7	4493	35.6
	50-64	72	48.3	6373	50.5
	65+	3	2.0	423	3.3
<b>Recipient Gender</b>	Female	33	22.1	2761	21.9
	Male	116	77.9	9866	78.1
<b>Recipient Race</b>	White	114	76.5	10504	83.2
	Black	34	22.8	1206	9.6
	Hispanic	1	0.7	570	4.5
	Asian	0	0.0	125	1.0
	Other	0	0.0	216	1.7
	Not Reported	0	0.0	6	0.0

		----- Program -----		--- National ---	
		Number	%	Number	%
<b>Previous Heart Transplant</b>	No	148	99.3	12231	96.9
	Yes	0	0.0	344	2.7
	Not Reported	1	0.7	52	0.4
<b>On Ventilator at Transplant</b>	No	144	96.6	11892	94.2
	Yes	3	2.0	663	5.3
	Not Reported	2	1.3	72	0.6
<b>On VAD at Transplant</b>	No	144	96.6	12187	96.5
	Yes	3	2.0	366	2.9
	Not Reported	2	1.3	74	0.6
<b>On IABP at Transplant</b>	No	134	89.9	11754	93.1
	Yes	13	8.7	801	6.3
	Not Reported	2	1.3	72	0.6
<b>Diagnosis at Transplant</b>	Coronary Artery Disease	67	45.0	5222	41.4
	Cardiomyopathy	78	52.3	5779	45.8
	Eisenmenger's Syndrome/Congenital	1	0.7	933	7.4
	Valvular Heart Disease	2	1.3	476	3.8
	Other Diagnosis	1	0.7	183	1.4
	Not Reported	0	0.0	34	0.3
<b>Medical Condition at Transplant</b>	Not Hospitalized	41	27.5	5606	44.4
	Hospitalized	3	2.0	986	7.8
	In ICU	105	70.5	6019	47.7
	Not Reported	0	0.0	16	0.1
<b>Cold Ischemia Time</b>	Up to 2 hrs	93	62.4	3458	27.4
	> 2 - 2.5 hrs	29	19.5	2271	18.0
	> 2.5 - 3 hrs	23	15.4	2408	19.1
	> 3 - 3.5 hrs	4	2.7	1949	15.4
	> 3.5 hrs	0	0.0	2453	19.4
	Not Reported	0	0.0	88	0.7
<b>Year of Transplant</b>	1988	15	10.1	1649	13.1
	1989	23	15.4	1677	13.3
	1990	24	16.1	2071	16.4
	1991	22	14.8	2098	16.6
	1992	26	17.4	2145	17.0
	1993	31	20.8	2266	17.9
	1994	8	5.4	721	5.7

Source: UNOS OPTN/Scientific Registry data.

## Heart Transplants: January 1, 1988 - April 30, 1994

Survival Report for St Joseph's Hospital - Atlanta GA  
Provider Number 110082 (GASJ)Graft Survival

	Era 1: 1/1/88-4/30/92			Era 2: 5/1/92-4/30/94			Overall: 1/1/88-4/30/94						
Time Point	No. of TX	Act. Rate (%)	Exp. Rate (%)	No. of TX	Act. Rate (%)	Exp. Rate (%)	No. of TX	No. <sup>1</sup> w/CFU	No. Failed	Act. Rate (%)	Exp. Rate (%)	Diff. (%)	p- <sup>2</sup> value
1 Month	116	95.7	93.3	41	95.1	93.3	157	157	7	95.5	93.3	2.2	0.25
1 Year	116	85.3	83.7	41	90.2	84.3	157	157	21	86.6	83.9	2.7	0.34
Cond. <sup>3</sup> 3 Years	99	85.9	90.8				99	99	14	85.9	90.8	-5.0	0.08
3 Years <sup>3</sup>		73.3	76.0										

Patient Survival

	Era 1: 1/1/88-4/30/92			Era 2: 5/1/92-4/30/94			Overall: 1/1/88-4/30/94						
Time Point	No. of Pts. <sup>4</sup>	Act. Rate (%)	Exp. Rate (%)	No. of Pts. <sup>4</sup>	Act. Rate (%)	Exp. Rate (%)	No. of Pts. <sup>4</sup>	No. <sup>1,5</sup> w/CFU	No. <sup>5</sup> Died	Act. Rate (%)	Exp. Rate (%)	Diff. (%)	p- <sup>2</sup> value
1 Month	116	95.7	93.7	41	95.1	93.7	156	156.0	7.0	95.5	93.7	1.8	0.34
1 Year	116	85.3	84.3	41	90.1	85.0	156	156.0	21.0	86.5	84.5	2.0	0.47
Cond. <sup>3</sup> 3 Years	99	85.9	91.2				99	99.0	14.0	85.9	91.2	-5.3	0.06
3 Years <sup>3</sup>		73.2	76.9										

Notes: <sup>1</sup> No. with complete follow-up (CFU) is the total of the number of patients (grafts) whose status was known during the specified time interval.

<sup>2</sup> A p-value followed by an \* indicates that the difference is statistically significant at the 0.05 level.

<sup>3</sup> Conditional 3 year survival rates are the survival rates conditional on survival at 1 year. These are computed based on transplants between 1/1/88 and 4/30/92. Three year survival rates are computed by multiplying the 1 year and the conditional 3 year survival rates.

<sup>4</sup> The numbers of patients in Era 1 and Era 2 do not necessarily add up to the number of patients in the overall period, due to repeat transplants in different eras for some patients.

<sup>5</sup> No. w/CFU or No. Died may be fractional if patients received more than one transplant at the program.

Source: UNOS OPTN/Scientific Registry data.



**Heart Transplants: January 1, 1988 - April 30, 1994**  
**Donor and Recipient Characteristics: Program and National Frequencies**

**St Joseph's Hospital - Atlanta GA**  
**Provider Number 110082 (GASJ)**

		---- Program ----		--- National ---	
		Number	%	Number	%
<b>Total Transplants and Percentages</b>		<b>157</b>	<b>100.0</b>	<b>12627</b>	<b>100.0</b>
<b>Donor Age</b>	0-5	0	0.0	799	6.3
	6-10	0	0.0	274	2.2
	11-17	18	11.5	2029	16.1
	18-49	135	86.0	8923	70.7
	50-64	4	2.5	589	4.7
	65+	0	0.0	12	0.1
	Not Reported	0	0.0	1	0.0
<b>Donor Gender</b>	Female	39	24.8	3728	29.5
	Male	118	75.2	8899	70.5
<b>Donor Race</b>	White	128	81.5	10036	79.5
	Black	26	16.6	1263	10.0
	Hispanic	2	1.3	1143	9.1
	Asian	0	0.0	90	0.7
	Other	1	0.6	87	0.7
	Not Reported	0	0.0	8	0.1
<b>Recipient Age</b>	<1	0	0.0	549	4.3
	1-10	0	0.0	431	3.4
	11-17	0	0.0	358	2.8
	18-49	71	45.2	4493	35.6
	50-64	85	54.1	6373	50.5
	65+	1	0.6	423	3.3
<b>Recipient Gender</b>	Female	21	13.4	2761	21.9
	Male	136	86.6	9866	78.1
<b>Recipient Race</b>	White	140	89.2	10504	83.2
	Black	17	10.8	1206	9.6
	Hispanic	0	0.0	570	4.5
	Asian	0	0.0	125	1.0
	Other	0	0.0	216	1.7
	Not Reported	0	0.0	6	0.0

		----- Program -----		--- National ---	
		Number	%	Number	%
<b>Previous Heart Transplant</b>	No	150	95.5	12231	96.9
	Yes	7	4.5	344	2.7
	Not Reported	0	0.0	52	0.4
<b>On Ventilator at Transplant</b>	No	157	100.0	11892	94.2
	Yes	0	0.0	663	5.3
	Not Reported	0	0.0	72	0.6
<b>On VAD at Transplant</b>	No	154	98.1	12187	96.5
	Yes	3	1.9	366	2.9
	Not Reported	0	0.0	74	0.6
<b>On IABP at Transplant</b>	No	147	93.6	11754	93.1
	Yes	10	6.4	801	6.3
	Not Reported	0	0.0	72	0.6
<b>Diagnosis at Transplant</b>	Coronary Artery Disease	83	52.9	5222	41.4
	Cardiomyopathy	64	40.8	5779	45.8
	Eisenmenger's Syndrome/Congenital	0	0.0	933	7.4
	Valvular Heart Disease	5	3.2	476	3.8
	Other Diagnosis	5	3.2	183	1.4
	Not Reported	0	0.0	34	0.3
<b>Medical Condition at Transplant</b>	Not Hospitalized	48	30.6	5606	44.4
	Hospitalized	4	2.5	986	7.8
	In ICU	105	66.9	6019	47.7
	Not Reported	0	0.0	16	0.1
<b>Cold Ischemia Time</b>	Up to 2 hrs	72	45.9	3458	27.4
	> 2 - 2.5 hrs	30	19.1	2271	18.0
	> 2.5 - 3 hrs	35	22.3	2408	19.1
	> 3 - 3.5 hrs	9	5.7	1949	15.4
	> 3.5 hrs	9	5.7	2453	19.4
	Not Reported	2	1.3	88	0.7
<b>Year of Transplant</b>	1988	47	29.9	1649	13.1
	1989	26	16.6	1677	13.3
	1990	22	14.0	2071	16.4
	1991	19	12.1	2098	16.6
	1992	16	10.2	2145	17.0
	1993	20	12.7	2266	17.9
	1994	7	4.5	721	5.7

Source: UNOS OPTN/Scientific Registry data.

## Heart Transplants: January 1, 1988 - April 30, 1994

Survival Report for University Hospital - Augusta GA  
Provider Number 110028 (GAUH)Graft Survival

	Era 1: 1/1/88-4/30/92			Era 2: 5/1/92-4/30/94			Overall: 1/1/88-4/30/94						
Time Point	No. of TX	Act. Rate (%)	Exp. Rate (%)	No. of TX	Act. Rate (%)	Exp. Rate (%)	No. of TX	No. <sup>1</sup> w/CFU	No. Failed	Act. Rate (%)	Exp. Rate (%)	Diff. (%)	p- <sup>2</sup> value
1 Month	2	50.0	77.8				2	2	1	50.0	77.8	-27.8	0.40
1 Year	2	50.0	70.9				2	2	1	50.0	70.9	-20.9	0.50
Cond. <sup>3</sup> 3 Years	1	100.0	92.3				1	1	0	100.0	92.3	7.7	1.00
3 Years <sup>3</sup>		50.0	65.4										

Patient Survival

	Era 1: 1/1/88-4/30/92			Era 2: 5/1/92-4/30/94			Overall: 1/1/88-4/30/94						
Time Point	No. of Pts. <sup>4</sup>	Act. Rate (%)	Exp. Rate (%)	No. of Pts. <sup>4</sup>	Act. Rate (%)	Exp. Rate (%)	No. of Pts. <sup>4</sup>	No. <sup>1,5</sup> w/CFU	No. <sup>5</sup> Died	Act. Rate (%)	Exp. Rate (%)	Diff. (%)	p- <sup>2</sup> value
1 Month	2	50.0	79.5				2	2.0	1.0	50.0	79.5	-29.5	0.37
1 Year	2	50.0	71.9				2	2.0	1.0	50.0	71.9	-21.9	0.48
Cond. <sup>3</sup> 3 Years	1	100.0	92.6				1	1.0	0.0	100.0	92.6	7.4	1.00
3 Years <sup>3</sup>		50.0	66.6										

Notes: <sup>1</sup> No. with complete follow-up (CFU) is the total of the number of patients (grafts) whose status was known during the specified time interval.

<sup>2</sup> A p-value followed by an \* indicates that the difference is statistically significant at the 0.05 level.

<sup>3</sup> Conditional 3 year survival rates are the survival rates conditional on survival at 1 year. These are computed based on transplants between 1/1/88 and 4/30/92. Three year survival rates are computed by multiplying the 1 year and the conditional 3 year survival rates.

<sup>4</sup> The numbers of patients in Era 1 and Era 2 do not necessarily add up to the number of patients in the overall period, due to repeat transplants in different eras for some patients.

<sup>5</sup> No. w/CFU or No. Died may be fractional if patients received more than one transplant at the program.

Source: UNOS OPTN/Scientific Registry data.

**Heart Transplants: January 1, 1988 - April 30, 1994**  
**Donor and Recipient Characteristics: Program and National Frequencies**

**University Hospital - Augusta GA**  
**Provider Number 110028 (GAUH)**

		---- Program ----		--- National ---	
		Number	%	Number	%
<b>Total Transplants and Percentages</b>		<b>2</b>	<b>100.0</b>	<b>12627</b>	<b>100.0</b>
<b>Donor Age</b>	0-5	0	0.0	799	6.3
	6-10	0	0.0	274	2.2
	11-17	0	0.0	2029	16.1
	18-49	2	100.0	8923	70.7
	50-64	0	0.0	589	4.7
	65+	0	0.0	12	0.1
	Not Reported	0	0.0	1	0.0
<b>Donor Gender</b>	Female	2	100.0	3728	29.5
	Male	0	0.0	8899	70.5
<b>Donor Race</b>	White	2	100.0	10036	79.5
	Black	0	0.0	1263	10.0
	Hispanic	0	0.0	1143	9.1
	Asian	0	0.0	90	0.7
	Other	0	0.0	87	0.7
	Not Reported	0	0.0	8	0.1
<b>Recipient Age</b>	<1	0	0.0	549	4.3
	1-10	0	0.0	431	3.4
	11-17	0	0.0	358	2.8
	18-49	0	0.0	4493	35.6
	50-64	2	100.0	6373	50.5
	65+	0	0.0	423	3.3
<b>Recipient Gender</b>	Female	1	50.0	2761	21.9
	Male	1	50.0	9866	78.1
<b>Recipient Race</b>	White	2	100.0	10504	83.2
	Black	0	0.0	1206	9.6
	Hispanic	0	0.0	570	4.5
	Asian	0	0.0	125	1.0
	Other	0	0.0	216	1.7
	Not Reported	0	0.0	6	0.0

		---- Program ----		--- National ---	
		Number	%	Number	%
<b>Previous Heart Transplant</b>	No	2	100.0	12231	96.9
	Yes	0	0.0	344	2.7
	Not Reported	0	0.0	52	0.4
<b>On Ventilator at Transplant</b>	No	1	50.0	11892	94.2
	Yes	1	50.0	663	5.3
	Not Reported	0	0.0	72	0.6
<b>On VAD at Transplant</b>	No	1	50.0	12187	96.5
	Yes	1	50.0	366	2.9
	Not Reported	0	0.0	74	0.6
<b>On IABP at Transplant</b>	No	1	50.0	11754	93.1
	Yes	1	50.0	801	6.3
	Not Reported	0	0.0	72	0.6
<b>Diagnosis at Transplant</b>	Coronary Artery Disease	1	50.0	5222	41.4
	Cardiomyopathy	1	50.0	5779	45.8
	Eisenmenger's Syndrome/Congenital	0	0.0	933	7.4
	Valvular Heart Disease	0	0.0	476	3.8
	Other Diagnosis	0	0.0	183	1.4
	Not Reported	0	0.0	34	0.3
<b>Medical Condition at Transplant</b>	Not Hospitalized	0	0.0	5606	44.4
	Hospitalized	0	0.0	986	7.8
	In ICU	2	100.0	6019	47.7
	Not Reported	0	0.0	16	0.1
<b>Cold Ischemia Time</b>	Up to 2 hrs	1	50.0	3458	27.4
	> 2 - 2.5 hrs	0	0.0	2271	18.0
	> 2.5 - 3 hrs	1	50.0	2408	19.1
	> 3 - 3.5 hrs	0	0.0	1949	15.4
	> 3.5 hrs	0	0.0	2453	19.4
	Not Reported	0	0.0	88	0.7
<b>Year of Transplant</b>	1988	2	100.0	1649	13.1
	1989	0	0.0	1677	13.3
	1990	0	0.0	2071	16.4
	1991	0	0.0	2098	16.6
	1992	0	0.0	2145	17.0
	1993	0	0.0	2266	17.9
	1994	0	0.0	721	5.7

Source: UNOS OPTN/Scientific Registry data.

## Heart Transplants: January 1, 1988 - April 30, 1994

Survival Report for St Francis Medical Center - Honolulu HI  
Provider Number 120010 (HISF)Graft Survival

	Era 1: 1/1/88-4/30/92			Era 2: 5/1/92-4/30/94			Overall: 1/1/88-4/30/94						
Time Point	No. of TX	Act. Rate (%)	Exp. Rate (%)	No. of TX	Act. Rate (%)	Exp. Rate (%)	No. of TX	No. <sup>1</sup> w/CFU	No. Failed	Act. Rate (%)	Exp. Rate (%)	Diff. (%)	p- <sup>2</sup> value
1 Month	12	91.7	94.9	6	100.0	96.5	18	18	1	94.4	95.4	-1.0	0.83
1 Year	12	75.0	83.8	6	83.3	89.0	18	18	4	77.8	85.5	-7.8	0.31
Cond. <sup>3</sup> 3 Years	9	88.9	83.6				9	9	1	88.9	83.6	5.3	0.65
3 Years <sup>3</sup>		66.7	70.0										

Patient Survival

	Era 1: 1/1/88-4/30/92			Era 2: 5/1/92-4/30/94			Overall: 1/1/88-4/30/94						
Time Point	No. of Pts. <sup>4</sup>	Act. Rate (%)	Exp. Rate (%)	No. of Pts. <sup>4</sup>	Act. Rate (%)	Exp. Rate (%)	No. of Pts. <sup>4</sup>	No. <sup>1,5</sup> w/CFU	No. <sup>5</sup> Died	Act. Rate (%)	Exp. Rate (%)	Diff. (%)	p- <sup>2</sup> value
1 Month	11	95.5	95.9	6	100.0	96.7	17	17.0	0.5	97.1	96.2	0.9	0.85
1 Year	11	81.8	86.1	6	83.3	89.5	17	17.0	3.0	82.4	87.3	-4.9	0.52
Cond. <sup>3</sup> 3 Years	9	88.9	84.7				9	9.0	1.0	88.9	84.7	4.1	0.72
3 Years <sup>3</sup>		72.7	73.0										

Notes: <sup>1</sup> No. with complete follow-up (CFU) is the total of the number of patients (grafts) whose status was known during the specified time interval.

<sup>2</sup> A p-value followed by an \* indicates that the difference is statistically significant at the 0.05 level.

<sup>3</sup> Conditional 3 year survival rates are the survival rates conditional on survival at 1 year. These are computed based on transplants between 1/1/88 and 4/30/92. Three year survival rates are computed by multiplying the 1 year and the conditional 3 year survival rates.

<sup>4</sup> The numbers of patients in Era 1 and Era 2 do not necessarily add up to the number of patients in the overall period, due to repeat transplants in different eras for some patients.

<sup>5</sup> No. w/CFU or No. Died may be fractional if patients received more than one transplant at the program.

Source: UNOS OPTN/Scientific Registry data.



**Heart Transplants: January 1, 1988 - April 30, 1994**  
**Donor and Recipient Characteristics: Program and National Frequencies**

**St Francis Medical Center - Honolulu HI**  
**Provider Number 120010 (HISF)**

		----- Program -----		--- National ---	
		Number	%	Number	%
<b>Total Transplants and Percentages</b>		<b>18</b>	<b>100.0</b>	<b>12627</b>	<b>100.0</b>
<b>Donor Age</b>	0-5	0	0.0	799	6.3
	6-10	0	0.0	274	2.2
	11-17	3	16.7	2029	16.1
	18-49	14	77.8	8923	70.7
	50-64	1	5.6	589	4.7
	65+	0	0.0	12	0.1
	Not Reported	0	0.0	1	0.0
<b>Donor Gender</b>	Female	3	16.7	3728	29.5
	Male	15	83.3	8899	70.5
<b>Donor Race</b>	White	11	61.1	10036	79.5
	Black	1	5.6	1263	10.0
	Hispanic	0	0.0	1143	9.1
	Asian	5	27.8	90	0.7
	Other	1	5.6	87	0.7
	Not Reported	0	0.0	8	0.1
<b>Recipient Age</b>	<1	0	0.0	549	4.3
	1-10	0	0.0	431	3.4
	11-17	0	0.0	358	2.8
	18-49	13	72.2	4493	35.6
	50-64	5	27.8	6373	50.5
	65+	0	0.0	423	3.3
<b>Recipient Gender</b>	Female	1	5.6	2761	21.9
	Male	17	94.4	9866	78.1
<b>Recipient Race</b>	White	0	0.0	10504	83.2
	Black	0	0.0	1206	9.6
	Hispanic	0	0.0	570	4.5
	Asian	15	83.3	125	1.0
	Other	3	16.7	216	1.7
	Not Reported	0	0.0	6	0.0

		----- Program -----		--- National ---	
		Number	%	Number	%
<b>Previous Heart Transplant</b>	No	17	94.4	12231	96.9
	Yes	1	5.6	344	2.7
	Not Reported	0	0.0	52	0.4
<b>On Ventilator at Transplant</b>	No	17	94.4	11892	94.2
	Yes	1	5.6	663	5.3
	Not Reported	0	0.0	72	0.6
<b>On VAD at Transplant</b>	No	18	100.0	12187	96.5
	Yes	0	0.0	366	2.9
	Not Reported	0	0.0	74	0.6
<b>On IABP at Transplant</b>	No	18	100.0	11754	93.1
	Yes	0	0.0	801	6.3
	Not Reported	0	0.0	72	0.6
<b>Diagnosis at Transplant</b>	Coronary Artery Disease	0	0.0	5222	41.4
	Cardiomyopathy	18	100.0	5779	45.8
	Eisenmenger's Syndrome/Congenital	0	0.0	933	7.4
	Valvular Heart Disease	0	0.0	476	3.8
	Other Diagnosis	0	0.0	183	1.4
	Not Reported	0	0.0	34	0.3
<b>Medical Condition at Transplant</b>	Not Hospitalized	12	66.7	5606	44.4
	Hospitalized	5	27.8	986	7.8
	In ICU	1	5.6	6019	47.7
	Not Reported	0	0.0	16	0.1
<b>Cold Ischemia Time</b>	Up to 2 hrs	17	94.4	3458	27.4
	> 2 - 2.5 hrs	0	0.0	2271	18.0
	> 2.5 - 3 hrs	0	0.0	2408	19.1
	> 3 - 3.5 hrs	0	0.0	1949	15.4
	> 3.5 hrs	1	5.6	2453	19.4
	Not Reported	0	0.0	88	0.7
<b>Year of Transplant</b>	1988	1	5.6	1649	13.1
	1989	3	16.7	1677	13.3
	1990	3	16.7	2071	16.4
	1991	3	16.7	2098	16.6
	1992	6	33.3	2145	17.0
	1993	1	5.6	2266	17.9
	1994	1	5.6	721	5.7

Source: UNOS OPTN/Scientific Registry data.

## Heart Transplants: January 1, 1988 - April 30, 1994

Survival Report for University of Iowa Hospitals & Clinics - Iowa City IA  
Provider Number 160058 (IAIV)Graft Survival

	Era 1: 1/1/88-4/30/92			Era 2: 5/1/92-4/30/94			Overall: 1/1/88-4/30/94						
Time Point	No. of TX	Act. Rate (%)	Exp. Rate (%)	No. of TX	Act. Rate (%)	Exp. Rate (%)	No. of TX	No. <sup>1</sup> w/CFU	No. Failed	Act. Rate (%)	Exp. Rate (%)	Diff. (%)	p- <sup>2</sup> value
1 Month	43	79.1	90.5	28	82.1	90.5	71	71	14	80.3	90.5	-10.2	<0.01*
1 Year	43	74.4	81.2	28	60.7	80.6	71	71	22	69.0	80.9	-11.9	<0.01*
Cond. <sup>3</sup> 3 Years	32	100.0	91.0				32	32	0	100.0	91.0	9.0	0.07
3 Years <sup>3</sup>		74.4	73.8										

Patient Survival

	Era 1: 1/1/88-4/30/92			Era 2: 5/1/92-4/30/94			Overall: 1/1/88-4/30/94						
Time Point	No. of Pts. <sup>4</sup>	Act. Rate (%)	Exp. Rate (%)	No. of Pts. <sup>4</sup>	Act. Rate (%)	Exp. Rate (%)	No. of Pts. <sup>4</sup>	No. <sup>1,5</sup> w/CFU	No. <sup>5</sup> Died	Act. Rate (%)	Exp. Rate (%)	Diff. (%)	p- <sup>2</sup> value
1 Month	43	79.1	90.9	28	82.1	90.9	71	71.0	14.0	80.3	90.9	-10.6	<0.01*
1 Year	43	74.4	81.9	28	60.7	81.2	71	71.0	22.0	69.0	81.6	-12.6	<0.01*
Cond. <sup>3</sup> 3 Years	32	100.0	91.4				32	32.0	0.0	100.0	91.4	8.6	0.08
3 Years <sup>3</sup>		74.4	74.8										

Notes: <sup>1</sup> No. with complete follow-up (CFU) is the total of the number of patients (grafts) whose status was known during the specified time interval.

<sup>2</sup> A p-value followed by an \* indicates that the difference is statistically significant at the 0.05 level.

<sup>3</sup> Conditional 3 year survival rates are the survival rates conditional on survival at 1 year. These are computed based on transplants between 1/1/88 and 4/30/92. Three year survival rates are computed by multiplying the 1 year and the conditional 3 year survival rates.

<sup>4</sup> The numbers of patients in Era 1 and Era 2 do not necessarily add up to the number of patients in the overall period, due to repeat transplants in different eras for some patients.

<sup>5</sup> No. w/CFU or No. Died may be fractional if patients received more than one transplant at the program.

Source: UNOS OPTN/Scientific Registry data.

**Heart Transplants: January 1, 1988 - April 30, 1994**  
**Donor and Recipient Characteristics: Program and National Frequencies**

**University of Iowa Hospitals & Clinics - Iowa City IA**  
**Provider Number 160058 (IAIV)**

		----- Program -----		--- National ---	
		Number	%	Number	%
<b>Total Transplants and Percentages</b>		<b>71</b>	<b>100.0</b>	<b>12627</b>	<b>100.0</b>
<b>Donor Age</b>	0-5	12	16.9	799	6.3
	6-10	3	4.2	274	2.2
	11-17	7	9.9	2029	16.1
	18-49	41	57.7	8923	70.7
	50-64	8	11.3	589	4.7
	65+	0	0.0	12	0.1
	Not Reported	0	0.0	1	0.0
<b>Donor Gender</b>	Female	24	33.8	3728	29.5
	Male	47	66.2	8899	70.5
<b>Donor Race</b>	White	66	93.0	10036	79.5
	Black	3	4.2	1263	10.0
	Hispanic	2	2.8	1143	9.1
	Asian	0	0.0	90	0.7
	Other	0	0.0	87	0.7
	Not Reported	0	0.0	8	0.1
<b>Recipient Age</b>	<1	5	7.0	549	4.3
	1-10	9	12.7	431	3.4
	11-17	0	0.0	358	2.8
	18-49	19	26.8	4493	35.6
	50-64	37	52.1	6373	50.5
	65+	1	1.4	423	3.3
<b>Recipient Gender</b>	Female	20	28.2	2761	21.9
	Male	51	71.8	9866	78.1
<b>Recipient Race</b>	White	68	95.8	10504	83.2
	Black	2	2.8	1206	9.6
	Hispanic	1	1.4	570	4.5
	Asian	0	0.0	125	1.0
	Other	0	0.0	216	1.7
	Not Reported	0	0.0	6	0.0

		----- Program -----		--- National ---	
		Number	%	Number	%
<b>Previous Heart Transplant</b>	No	70	98.6	12231	96.9
	Yes	1	1.4	344	2.7
	Not Reported	0	0.0	52	0.4
<b>On Ventilator at Transplant</b>	No	63	88.7	11892	94.2
	Yes	8	11.3	663	5.3
	Not Reported	0	0.0	72	0.6
<b>On VAD at Transplant</b>	No	69	97.2	12187	96.5
	Yes	2	2.8	366	2.9
	Not Reported	0	0.0	74	0.6
<b>On IABP at Transplant</b>	No	68	95.8	11754	93.1
	Yes	3	4.2	801	6.3
	Not Reported	0	0.0	72	0.6
<b>Diagnosis at Transplant</b>	Coronary Artery Disease	31	43.7	5222	41.4
	Cardiomyopathy	28	39.4	5779	45.8
	Eisenmenger's Syndrome/Congenital	9	12.7	933	7.4
	Valvular Heart Disease	3	4.2	476	3.8
	Other Diagnosis	0	0.0	183	1.4
	Not Reported	0	0.0	34	0.3
<b>Medical Condition at Transplant</b>	Not Hospitalized	47	66.2	5606	44.4
	Hospitalized	4	5.6	986	7.8
	In ICU	20	28.2	6019	47.7
	Not Reported	0	0.0	16	0.1
<b>Cold Ischemia Time</b>	Up to 2 hrs	17	23.9	3458	27.4
	> 2 - 2.5 hrs	10	14.1	2271	18.0
	> 2.5 - 3 hrs	24	33.8	2408	19.1
	> 3 - 3.5 hrs	10	14.1	1949	15.4
	> 3.5 hrs	10	14.1	2453	19.4
	Not Reported	0	0.0	88	0.7
<b>Year of Transplant</b>	1988	10	14.1	1649	13.1
	1989	6	8.5	1677	13.3
	1990	10	14.1	2071	16.4
	1991	11	15.5	2098	16.6
	1992	13	18.3	2145	17.0
	1993	17	23.9	2266	17.9
	1994	4	5.6	721	5.7

Source: UNOS OPTN/Scientific Registry data.

**Response From: The University of Iowa Hospitals and Clinics  
200 Hawkins Drive, Iowa City, IA 52242  
Provider Number 160058 (IAIV)**

May 1, 1997

The 1996 Center Specific Report includes survival data gathered between 1988 and April 30, 1994. The physicians responsible for the Cardiac Transplant Program for the majority of this time are no longer associated with The University of Iowa. The current medical and surgical directors of the Cardiac Transplant Program arrived at The University of Iowa in **mid** 1993. The program was carefully evaluated and modifications in place by mid 1994. Since that time, 29 adult and pediatric cardiac transplants have been performed with a 100% one month, and 84.4% 12 month actuarial survival. If adult cardiac transplantation is considered alone, there is a 100% one month, and an 89.4% 12 month actuarial survival since mid 1994. These results reflect the renewed commitment to cardiac transplantation by the administration and staff at The University of Iowa.

Wayne E. Richenbacher. M.D.  
Associate Professor  
Surgical Director, Cardiac Transplant Program





## Heart Transplants: January 1, 1988 - April 30, 1994

Survival Report for Mercy Hospital Medical Center - Des Moines IA  
Provider Number 160083 (IAMH)Graft Survival

	Era 1: 1/1/88-4/30/92			Era 2: 5/1/92-4/30/94			Overall: 1/1/88-4/30/94						
Time Point	No. of TX	Act. Rate (%)	Exp. Rate (%)	No. of TX	Act. Rate (%)	Exp. Rate (%)	No. of TX	No. <sup>1</sup> w/CFU	No. Failed	Act. Rate (%)	Exp. Rate (%)	Diff. (%)	p- <sup>2</sup> value
1 Month	33	81.8	91.9	17	82.4	87.8	50	50	9	82.0	90.5	-8.5	0.03*
1 Year	33	75.8	82.4	17	70.6	78.6	50	50	13	74.0	81.1	-7.1	0.18
Cond. <sup>3</sup> 3 Years	25	80.0	91.4				25	25	5	80.0	91.4	-11.4	0.04*
3 Years <sup>3</sup>		60.6	75.3										

Patient Survival

	Era 1: 1/1/88-4/30/92			Era 2: 5/1/92-4/30/94			Overall: 1/1/88-4/30/94						
Time Point	No. of Pts. <sup>4</sup>	Act. Rate (%)	Exp. Rate (%)	No. of Pts. <sup>4</sup>	Act. Rate (%)	Exp. Rate (%)	No. of Pts. <sup>4</sup>	No. <sup>1,5</sup> w/CFU	No. <sup>5</sup> Died	Act. Rate (%)	Exp. Rate (%)	Diff. (%)	p- <sup>2</sup> value
1 Month	32	84.4	92.4	17	82.4	88.8	49	49.0	8.0	83.7	91.1	-7.5	0.06
1 Year	32	78.1	83.4	17	70.6	79.4	49	49.0	12.0	75.5	82.0	-6.5	0.22
Cond. <sup>3</sup> 3 Years	25	80.0	91.8				25	25.0	5.0	80.0	91.8	-11.8	0.03*
3 Years <sup>3</sup>		62.5	76.5										

Notes: <sup>1</sup> No. with complete follow-up (CFU) is the total of the number of patients (grafts) whose status was known during the specified time interval.

<sup>2</sup> A p-value followed by an \* indicates that the difference is statistically significant at the 0.05 level.

<sup>3</sup> Conditional 3 year survival rates are the survival rates conditional on survival at 1 year. These are computed based on transplants between 1/1/88 and 4/30/92. Three year survival rates are computed by multiplying the 1 year and the conditional 3 year survival rates.

<sup>4</sup> The numbers of patients in Era 1 and Era 2 do not necessarily add up to the number of patients in the overall period, due to repeat transplants in different eras for some patients.

<sup>5</sup> No. w/CFU or No. Died may be fractional if patients received more than one transplant at the program.

Source: UNOS OPTN/Scientific Registry data.

**Heart Transplants: January 1, 1988 - April 30, 1994**  
**Donor and Recipient Characteristics: Program and National Frequencies**

**Mercy Hospital Medical Center - Des Moines IA**  
**Provider Number 160083 (IAMH)**

		----- Program -----		--- National ---	
		Number	%	Number	%
<b>Total Transplants and Percentages</b>		<b>50</b>	<b>100.0</b>	<b>12627</b>	<b>100.0</b>
<b>Donor Age</b>	0-5	2	4.0	799	6.3
	6-10	1	2.0	274	2.2
	11-17	5	10.0	2029	16.1
	18-49	39	78.0	8923	70.7
	50-64	3	6.0	589	4.7
	65+	0	0.0	12	0.1
	Not Reported	0	0.0	1	0.0
<b>Donor Gender</b>	Female	15	30.0	3728	29.5
	Male	35	70.0	8899	70.5
<b>Donor Race</b>	White	47	94.0	10036	79.5
	Black	3	6.0	1263	10.0
	Hispanic	0	0.0	1143	9.1
	Asian	0	0.0	90	0.7
	Other	0	0.0	87	0.7
	Not Reported	0	0.0	8	0.1
<b>Recipient Age</b>	<1	2	4.0	549	4.3
	1-10	1	2.0	431	3.4
	11-17	1	2.0	358	2.8
	18-49	15	30.0	4493	35.6
	50-64	30	60.0	6373	50.5
	65+	1	2.0	423	3.3
<b>Recipient Gender</b>	Female	12	24.0	2761	21.9
	Male	38	76.0	9866	78.1
<b>Recipient Race</b>	White	48	96.0	10504	83.2
	Black	0	0.0	1206	9.6
	Hispanic	0	0.0	570	4.5
	Asian	0	0.0	125	1.0
	Other	2	4.0	216	1.7
	Not Reported	0	0.0	6	0.0

		----- Program -----		--- National ---	
		Number	%	Number	%
<b>Previous Heart Transplant</b>	No	48	96.0	12231	96.9
	Yes	2	4.0	344	2.7
	Not Reported	0	0.0	52	0.4
<b>On Ventilator at Transplant</b>	No	45	90.0	11892	94.2
	Yes	5	10.0	663	5.3
	Not Reported	0	0.0	72	0.6
<b>On VAD at Transplant</b>	No	50	100.0	12187	96.5
	Yes	0	0.0	366	2.9
	Not Reported	0	0.0	74	0.6
<b>On IABP at Transplant</b>	No	43	86.0	11754	93.1
	Yes	7	14.0	801	6.3
	Not Reported	0	0.0	72	0.6
<b>Diagnosis at Transplant</b>	Coronary Artery Disease	23	46.0	5222	41.4
	Cardiomyopathy	17	34.0	5779	45.8
	Eisenmenger's Syndrome/Congenital	6	12.0	933	7.4
	Valvular Heart Disease	2	4.0	476	3.8
	Other Diagnosis	2	4.0	183	1.4
	Not Reported	0	0.0	34	0.3
<b>Medical Condition at Transplant</b>	Not Hospitalized	27	54.0	5606	44.4
	Hospitalized	2	4.0	986	7.8
	In ICU	21	42.0	6019	47.7
	Not Reported	0	0.0	16	0.1
<b>Cold Ischemia Time</b>	Up to 2 hrs	23	46.0	3458	27.4
	> 2 - 2.5 hrs	9	18.0	2271	18.0
	> 2.5 - 3 hrs	10	20.0	2408	19.1
	> 3 - 3.5 hrs	2	4.0	1949	15.4
	> 3.5 hrs	6	12.0	2453	19.4
	Not Reported	0	0.0	88	0.7
<b>Year of Transplant</b>	1988	8	16.0	1649	13.1
	1989	9	18.0	1677	13.3
	1990	8	16.0	2071	16.4
	1991	4	8.0	2098	16.6
	1992	13	26.0	2145	17.0
	1993	3	6.0	2266	17.9
	1994	5	10.0	721	5.7

Source: UNOS OPTN/Scientific Registry data.

## Heart Transplants: January 1, 1988 - April 30, 1994

Survival Report for Children's Memorial Hospital - Chicago IL  
Provider Number 143300 (ILCM)Graft Survival

	Era 1: 1/1/88-4/30/92			Era 2: 5/1/92-4/30/94			Overall: 1/1/88-4/30/94						
Time Point	No. of TX	Act. Rate (%)	Exp. Rate (%)	No. of TX	Act. Rate (%)	Exp. Rate (%)	No. of TX	No. <sup>1</sup> w/CFU	No. Failed	Act. Rate (%)	Exp. Rate (%)	Diff. (%)	p- <sup>2</sup> value
1 Month	36	86.1	80.7	11	72.7	84.1	47	47	8	83.0	81.5	1.5	0.78
1 Year	36	72.2	67.9	11	63.6	72.8	47	47	14	70.2	69.0	1.2	0.85
Cond. <sup>3</sup> 3 Years	26	88.5	88.7				26	26	3	88.5	88.7	-0.3	0.96
3 Years <sup>3</sup>		63.9	60.2										

Patient Survival

	Era 1: 1/1/88-4/30/92			Era 2: 5/1/92-4/30/94			Overall: 1/1/88-4/30/94						
Time Point	No. of Pts. <sup>4</sup>	Act. Rate (%)	Exp. Rate (%)	No. of Pts. <sup>4</sup>	Act. Rate (%)	Exp. Rate (%)	No. of Pts. <sup>4</sup>	No. <sup>1,5</sup> w/CFU	No. <sup>5</sup> Died	Act. Rate (%)	Exp. Rate (%)	Diff. (%)	p- <sup>2</sup> value
1 Month	36	87.3	81.0	11	80.2	84.4	47	45.5	6.5	85.7	81.7	4.0	0.48
1 Year	36	73.2	68.8	11	70.0	73.4	47	45.5	12.5	72.5	69.8	2.8	0.71
Cond. <sup>3</sup> 3 Years	26	88.5	89.2				26	26.0	3.0	88.5	89.2	-0.7	0.90
3 Years <sup>3</sup>		64.8	61.4										

Notes: <sup>1</sup> No. with complete follow-up (CFU) is the total of the number of patients (grafts) whose status was known during the specified time interval.

<sup>2</sup> A p-value followed by an \* indicates that the difference is statistically significant at the 0.05 level.

<sup>3</sup> Conditional 3 year survival rates are the survival rates conditional on survival at 1 year. These are computed based on transplants between 1/1/88 and 4/30/92. Three year survival rates are computed by multiplying the 1 year and the conditional 3 year survival rates.

<sup>4</sup> The numbers of patients in Era 1 and Era 2 do not necessarily add up to the number of patients in the overall period, due to repeat transplants in different eras for some patients.

<sup>5</sup> No. w/CFU or No. Died may be fractional if patients received more than one transplant at the program.

Source: UNOS OPTN/Scientific Registry data.

**Heart Transplants: January 1, 1988 - April 30, 1994**  
**Donor and Recipient Characteristics: Program and National Frequencies**

**Children's Memorial Hospital - Chicago IL**  
**Provider Number 143300 (ILCM)**

		----- Program -----		--- National ---	
		Number	%	Number	%
<b>Total Transplants and Percentages</b>		<b>47</b>	<b>100.0</b>	<b>12627</b>	<b>100.0</b>
<b>Donor Age</b>	0-5	28	59.6	799	6.3
	6-10	8	17.0	274	2.2
	11-17	7	14.9	2029	16.1
	18-49	4	8.5	8923	70.7
	50-64	0	0.0	589	4.7
	65+	0	0.0	12	0.1
	Not Reported	0	0.0	1	0.0
<b>Donor Gender</b>	Female	20	42.6	3728	29.5
	Male	27	57.4	8899	70.5
<b>Donor Race</b>	White	30	63.8	10036	79.5
	Black	9	19.1	1263	10.0
	Hispanic	8	17.0	1143	9.1
	Asian	0	0.0	90	0.7
	Other	0	0.0	87	0.7
	Not Reported	0	0.0	8	0.1
<b>Recipient Age</b>	<1	19	40.4	549	4.3
	1-10	17	36.2	431	3.4
	11-17	11	23.4	358	2.8
	18-49	0	0.0	4493	35.6
	50-64	0	0.0	6373	50.5
	65+	0	0.0	423	3.3
<b>Recipient Gender</b>	Female	18	38.3	2761	21.9
	Male	29	61.7	9866	78.1
<b>Recipient Race</b>	White	35	74.5	10504	83.2
	Black	9	19.1	1206	9.6
	Hispanic	3	6.4	570	4.5
	Asian	0	0.0	125	1.0
	Other	0	0.0	216	1.7
	Not Reported	0	0.0	6	0.0

		----- Program -----		--- National ---	
		Number	%	Number	%
Previous Heart Transplant	No	46	97.9	12231	96.9
	Yes	1	2.1	344	2.7
	Not Reported	0	0.0	52	0.4
On Ventilator at Transplant	No	18	38.3	11892	94.2
	Yes	28	59.6	663	5.3
	Not Reported	1	2.1	72	0.6
On VAD at Transplant	No	46	97.9	12187	96.5
	Yes	0	0.0	366	2.9
	Not Reported	1	2.1	74	0.6
On IABP at Transplant	No	45	95.7	11754	93.1
	Yes	1	2.1	801	6.3
	Not Reported	1	2.1	72	0.6
Diagnosis at Transplant	Coronary Artery Disease	0	0.0	5222	41.4
	Cardiomyopathy	23	48.9	5779	45.8
	Eisenmenger's Syndrome/Congenital	24	51.1	933	7.4
	Valvular Heart Disease	0	0.0	476	3.8
	Other Diagnosis	0	0.0	183	1.4
	Not Reported	0	0.0	34	0.3
Medical Condition at Transplant	Not Hospitalized	2	4.3	5606	44.4
	Hospitalized	15	31.9	986	7.8
	In ICU	30	63.8	6019	47.7
	Not Reported	0	0.0	16	0.1
Cold Ischemia Time	Up to 2 hrs	15	31.9	3458	27.4
	> 2 - 2.5 hrs	5	10.6	2271	18.0
	> 2.5 - 3 hrs	12	25.5	2408	19.1
	> 3 - 3.5 hrs	7	14.9	1949	15.4
	> 3.5 hrs	8	17.0	2453	19.4
	Not Reported	0	0.0	88	0.7
Year of Transplant	1988	5	10.6	1649	13.1
	1989	11	23.4	1677	13.3
	1990	6	12.8	2071	16.4
	1991	11	23.4	2098	16.6
	1992	6	12.8	2145	17.0
	1993	4	8.5	2266	17.9
	1994	4	8.5	721	5.7

Source: UNOS OPTN/Scientific Registry data.



## Heart Transplants: January 1, 1988 - April 30, 1994

Survival Report for Evanston Hospital - Evanston IL  
Provider Number 140010 (ILEH)Graft Survival

	Era 1: 1/1/88-4/30/92			Era 2: 5/1/92-4/30/94			Overall: 1/1/88-4/30/94						
Time Point	No. of TX	Act. Rate (%)	Exp. Rate (%)	No. of TX	Act. Rate (%)	Exp. Rate (%)	No. of TX	No. <sup>1</sup> w/CFU	No. Failed	Act. Rate (%)	Exp. Rate (%)	Diff. (%)	p- <sup>2</sup> value
1 Month	24	95.8	91.3	16	100.0	93.1	40	40	1	97.5	92.0	5.5	0.19
1 Year	24	83.3	81.7	16	81.3	84.5	40	40	7	82.5	82.9	-0.4	0.95
Cond. <sup>3</sup> 3 Years	20	90.0	91.0				20	20	2	90.0	91.0	-1.0	0.87
3 Years <sup>3</sup>		75.0	74.4										

Patient Survival

	Era 1: 1/1/88-4/30/92			Era 2: 5/1/92-4/30/94			Overall: 1/1/88-4/30/94						
Time Point	No. of Pts. <sup>4</sup>	Act. Rate (%)	Exp. Rate (%)	No. of Pts. <sup>4</sup>	Act. Rate (%)	Exp. Rate (%)	No. of Pts. <sup>4</sup>	No. <sup>1,5</sup> w/CFU	No. <sup>5</sup> Died	Act. Rate (%)	Exp. Rate (%)	Diff. (%)	p- <sup>2</sup> value
1 Month	24	95.8	91.7	16	100.0	93.5	40	40.0	1.0	97.5	92.4	5.1	0.22
1 Year	24	83.3	82.3	16	81.3	85.1	40	40.0	7.0	82.5	83.4	-0.9	0.87
Cond. <sup>3</sup> 3 Years	20	90.0	91.4				20	20.0	2.0	90.0	91.4	-1.4	0.82
3 Years <sup>3</sup>		75.0	75.3										

Notes: <sup>1</sup> No. with complete follow-up (CFU) is the total of the number of patients (grafts) whose status was known during the specified time interval.

<sup>2</sup> A p-value followed by an \* indicates that the difference is statistically significant at the 0.05 level.

<sup>3</sup> Conditional 3 year survival rates are the survival rates conditional on survival at 1 year. These are computed based on transplants between 1/1/88 and 4/30/92. Three year survival rates are computed by multiplying the 1 year and the conditional 3 year survival rates.

<sup>4</sup> The numbers of patients in Era 1 and Era 2 do not necessarily add up to the number of patients in the overall period, due to repeat transplants in different eras for some patients.

<sup>5</sup> No. w/CFU or No. Died may be fractional if patients received more than one transplant at the program.

Source: UNOS OPTN/Scientific Registry data.

**Heart Transplants: January 1, 1988 - April 30, 1994**  
**Donor and Recipient Characteristics: Program and National Frequencies**

**Evanston Hospital - Evanston IL**  
**Provider Number 140010 (ILEH)**

		----- Program -----		--- National ---	
		Number	%	Number	%
<b>Total Transplants and Percentages</b>		<b>40</b>	<b>100.0</b>	<b>12627</b>	<b>100.0</b>
<b>Donor Age</b>	0-5	0	0.0	799	6.3
	6-10	0	0.0	274	2.2
	11-17	9	22.5	2029	16.1
	18-49	31	77.5	8923	70.7
	50-64	0	0.0	589	4.7
	65+	0	0.0	12	0.1
	Not Reported	0	0.0	1	0.0
<b>Donor Gender</b>	Female	9	22.5	3728	29.5
	Male	31	77.5	8899	70.5
<b>Donor Race</b>	White	29	72.5	10036	79.5
	Black	8	20.0	1263	10.0
	Hispanic	3	7.5	1143	9.1
	Asian	0	0.0	90	0.7
	Other	0	0.0	87	0.7
	Not Reported	0	0.0	8	0.1
<b>Recipient Age</b>	<1	0	0.0	549	4.3
	1-10	0	0.0	431	3.4
	11-17	0	0.0	358	2.8
	18-49	16	40.0	4493	35.6
	50-64	24	60.0	6373	50.5
	65+	0	0.0	423	3.3
<b>Recipient Gender</b>	Female	6	15.0	2761	21.9
	Male	34	85.0	9866	78.1
<b>Recipient Race</b>	White	36	90.0	10504	83.2
	Black	1	2.5	1206	9.6
	Hispanic	0	0.0	570	4.5
	Asian	0	0.0	125	1.0
	Other	3	7.5	216	1.7
	Not Reported	0	0.0	6	0.0

		----- Program -----		--- National ---	
		Number	%	Number	%
<b>Previous Heart Transplant</b>	No	40	100.0	12231	96.9
	Yes	0	0.0	344	2.7
	Not Reported	0	0.0	52	0.4
<b>On Ventilator at Transplant</b>	No	38	95.0	11892	94.2
	Yes	2	5.0	663	5.3
	Not Reported	0	0.0	72	0.6
<b>On VAD at Transplant</b>	No	40	100.0	12187	96.5
	Yes	0	0.0	366	2.9
	Not Reported	0	0.0	74	0.6
<b>On IABP at Transplant</b>	No	32	80.0	11754	93.1
	Yes	8	20.0	801	6.3
	Not Reported	0	0.0	72	0.6
<b>Diagnosis at Transplant</b>	Coronary Artery Disease	15	37.5	5222	41.4
	Cardiomyopathy	14	35.0	5779	45.8
	Eisenmenger's Syndrome/Congenital	5	12.5	933	7.4
	Valvular Heart Disease	6	15.0	476	3.8
	Other Diagnosis	0	0.0	183	1.4
	Not Reported	0	0.0	34	0.3
<b>Medical Condition at Transplant</b>	Not Hospitalized	8	20.0	5606	44.4
	Hospitalized	13	32.5	986	7.8
	In ICU	19	47.5	6019	47.7
	Not Reported	0	0.0	16	0.1
<b>Cold Ischemia Time</b>	Up to 2 hrs	0	0.0	3458	27.4
	> 2 - 2.5 hrs	7	17.5	2271	18.0
	> 2.5 - 3 hrs	14	35.0	2408	19.1
	> 3 - 3.5 hrs	12	30.0	1949	15.4
	> 3.5 hrs	7	17.5	2453	19.4
	Not Reported	0	0.0	88	0.7
<b>Year of Transplant</b>	1988	9	22.5	1649	13.1
	1989	5	12.5	1677	13.3
	1990	6	15.0	2071	16.4
	1991	2	5.0	2098	16.6
	1992	8	20.0	2145	17.0
	1993	8	20.0	2266	17.9
	1994	2	5.0	721	5.7

Source: UNOS OPTN/Scientific Registry data.

## Heart Transplants: January 1, 1988 - April 30, 1994

Survival Report for Loyola University Medical Center - Maywood IL  
Provider Number 140276 (ILLU)Graft Survival

	Era 1: 1/1/88-4/30/92			Era 2: 5/1/92-4/30/94			Overall: 1/1/88-4/30/94						
Time Point	No. of TX	Act. Rate (%)	Exp. Rate (%)	No. of TX	Act. Rate (%)	Exp. Rate (%)	No. of TX	No. <sup>1</sup> w/CFU	No. Failed	Act. Rate (%)	Exp. Rate (%)	Diff. (%)	p- <sup>2</sup> value
1 Month	128	93.0	91.2	59	91.5	90.1	187	187	14	92.5	90.9	1.6	0.42
1 Year	128	78.1	80.4	59	78.0	80.4	187	187	41	78.1	80.4	-2.3	0.41
Cond. <sup>3</sup> 3 Years	100	86.0	89.9				100	100	14	86.0	89.9	-3.9	0.19
3 Years <sup>3</sup>		67.2	72.2										

Patient Survival

	Era 1: 1/1/88-4/30/92			Era 2: 5/1/92-4/30/94			Overall: 1/1/88-4/30/94						
Time Point	No. of Pts. <sup>4</sup>	Act. Rate (%)	Exp. Rate (%)	No. of Pts. <sup>4</sup>	Act. Rate (%)	Exp. Rate (%)	No. of Pts. <sup>4</sup>	No. <sup>1,5</sup> w/CFU	No. <sup>5</sup> Died	Act. Rate (%)	Exp. Rate (%)	Diff. (%)	p- <sup>2</sup> value
1 Month	126	93.7	91.6	57	93.0	91.2	183	183.0	12.0	93.4	91.5	2.0	0.33
1 Year	126	79.4	81.2	57	80.7	81.8	183	183.0	37.0	79.8	81.4	-1.6	0.56
Cond. <sup>3</sup> 3 Years	100	86.0	90.4				100	100.0	14.0	86.0	90.4	-4.4	0.13
3 Years <sup>3</sup>		68.3	73.4										

Notes: <sup>1</sup> No. with complete follow-up (CFU) is the total of the number of patients (grafts) whose status was known during the specified time interval.

<sup>2</sup> A p-value followed by an \* indicates that the difference is statistically significant at the 0.05 level.

<sup>3</sup> Conditional 3 year survival rates are the survival rates conditional on survival at 1 year. These are computed based on transplants between 1/1/88 and 4/30/92. Three year survival rates are computed by multiplying the 1 year and the conditional 3 year survival rates.

<sup>4</sup> The numbers of patients in Era 1 and Era 2 do not necessarily add up to the number of patients in the overall period, due to repeat transplants in different eras for some patients.

<sup>5</sup> No. w/CFU or No. Died may be fractional if patients received more than one transplant at the program.

Source: UNOS OPTN/Scientific Registry data.

**Heart Transplants: January 1, 1988 - April 30, 1994**  
**Donor and Recipient Characteristics: Program and National Frequencies**

**Loyola University Medical Center - Maywood IL**  
**Provider Number 140276 (ILLU)**

		----- Program -----		--- National ---	
		Number	%	Number	%
<b>Total Transplants and Percentages</b>		<b>187</b>	<b>100.0</b>	<b>12627</b>	<b>100.0</b>
<b>Donor Age</b>	0-5	0	0.0	799	6.3
	6-10	0	0.0	274	2.2
	11-17	27	14.4	2029	16.1
	18-49	152	81.3	8923	70.7
	50-64	8	4.3	589	4.7
	65+	0	0.0	12	0.1
	Not Reported	0	0.0	1	0.0
<b>Donor Gender</b>	Female	41	21.9	3728	29.5
	Male	146	78.1	8899	70.5
<b>Donor Race</b>	White	131	70.1	10036	79.5
	Black	45	24.1	1263	10.0
	Hispanic	10	5.3	1143	9.1
	Asian	1	0.5	90	0.7
	Other	0	0.0	87	0.7
	Not Reported	0	0.0	8	0.1
<b>Recipient Age</b>	<1	0	0.0	549	4.3
	1-10	1	0.5	431	3.4
	11-17	7	3.7	358	2.8
	18-49	62	33.2	4493	35.6
	50-64	107	57.2	6373	50.5
	65+	10	5.3	423	3.3
<b>Recipient Gender</b>	Female	51	27.3	2761	21.9
	Male	136	72.7	9866	78.1
<b>Recipient Race</b>	White	151	80.7	10504	83.2
	Black	26	13.9	1206	9.6
	Hispanic	7	3.7	570	4.5
	Asian	0	0.0	125	1.0
	Other	3	1.6	216	1.7
	Not Reported	0	0.0	6	0.0

		----- Program -----		--- National ---	
		Number	%	Number	%
<b>Previous Heart Transplant</b>	No	181	96.8	12231	96.9
	Yes	6	3.2	344	2.7
	Not Reported	0	0.0	52	0.4
<b>On Ventilator at Transplant</b>	No	170	90.9	11892	94.2
	Yes	16	8.6	663	5.3
	Not Reported	1	0.5	72	0.6
<b>On VAD at Transplant</b>	No	171	91.4	12187	96.5
	Yes	15	8.0	366	2.9
	Not Reported	1	0.5	74	0.6
<b>On IABP at Transplant</b>	No	156	83.4	11754	93.1
	Yes	30	16.0	801	6.3
	Not Reported	1	0.5	72	0.6
<b>Diagnosis at Transplant</b>	Coronary Artery Disease	85	45.5	5222	41.4
	Cardiomyopathy	91	48.7	5779	45.8
	Eisenmenger's Syndrome/Congenital	2	1.1	933	7.4
	Valvular Heart Disease	9	4.8	476	3.8
	Other Diagnosis	0	0.0	183	1.4
	Not Reported	0	0.0	34	0.3
<b>Medical Condition at Transplant</b>	Not Hospitalized	56	29.9	5606	44.4
	Hospitalized	7	3.7	986	7.8
	In ICU	124	66.3	6019	47.7
	Not Reported	0	0.0	16	0.1
<b>Cold Ischemia Time</b>	Up to 2 hrs	32	17.1	3458	27.4
	> 2 - 2.5 hrs	50	26.7	2271	18.0
	> 2.5 - 3 hrs	33	17.6	2408	19.1
	> 3 - 3.5 hrs	37	19.8	1949	15.4
	> 3.5 hrs	35	18.7	2453	19.4
	Not Reported	0	0.0	88	0.7
<b>Year of Transplant</b>	1988	30	16.0	1649	13.1
	1989	23	12.3	1677	13.3
	1990	31	16.6	2071	16.4
	1991	34	18.2	2098	16.6
	1992	29	15.5	2145	17.0
	1993	33	17.6	2266	17.9
	1994	7	3.7	721	5.7

Source: UNOS OPTN/Scientific Registry data.



**Response From: Loyola University Medical Center  
2160 South First Avenue, Maywood, IL 60153  
Provider Number 140276 (ILLU)**

May 6, 1997

Loyola University Medical Center is pleased that the UNOS Survival Statistics for our Heart Transplant Program reflect Loyola's 13-year commitment to high quality patient care for terminal, end-stage congestive heart failure which includes heart transplantation as one treatment. Certainly, statistical analysis is not the sole measure of a heart transplant program's quality, but yet the UNOS data are a valuable measurement of the success of Loyola's Heart Transplant/Heart Failure Program. Three years ago we had the opportunity to revise protocols/procedures and change personnel. Thereafter, the more recent Loyola experience from May 1, 1994 to April, 30, 1997 demonstrates significantly better survival rates than the data published herein. Our current actual graft/patient survival rates of 83.9%/86.7% at one year and of 83.3%/86.1% at two years are in a group encompassing a total of 93 grafts in 90 patients. These improved statistics are despite the fact that the recipients in this recent group were very ill prior to transplant. Indeed, 73(78.5%) of these 93 grafts were performed as UNOS Status I. Furthermore, 27(29%) occurred while on circulatory - assist devices, ie, LVAD 19(20.4%) or TAH 8(8.6%). Another 7(7.5%) were on mechanical ventilator or intra-aortic balloon pump support. Finally, 39(41.9%) were supported with intravenous inotropes in the ICU setting at the time of operation. Our more recent experience continues to reflect the quality and dedication of the Loyola cardiac transplantation team in dealing with the "sickest of the sick" cardiac patients and our commitment to maintain immunosuppressed heart transplant recipients over the long-term.

G. Martin Mullen, M.D., FACC, FACP  
Associate Professor of Clinical Medicine  
Division of Cardiology  
Medical Director, Heart Transplant/Heart Failure Program



## Heart Transplants: January 1, 1988 - April 30, 1994

Survival Report for Rush-Presbyterian-St Luke's Medical Center - Chicago IL  
Provider Number 140119 (ILPL)Graft Survival

	Era 1: 1/1/88-4/30/92			Era 2: 5/1/92-4/30/94			Overall: 1/1/88-4/30/94						
Time Point	No. of TX	Act. Rate (%)	Exp. Rate (%)	No. of TX	Act. Rate (%)	Exp. Rate (%)	No. of TX	No. <sup>1</sup> w/CFU	No. Failed	Act. Rate (%)	Exp. Rate (%)	Diff. (%)	p- <sup>2</sup> value
1 Month	11	90.9	91.1	2	50.0	89.8	13	13	2	84.6	90.9	-6.3	0.42
1 Year	11	54.5	80.6	2	0.0	77.7	13	13	7	46.2	80.1	-34.0	<0.01*
Cond. <sup>3</sup> 3 Years	6	83.3	89.9				6	6	1	83.3	89.9	-6.6	0.59
3 Years <sup>3</sup>		45.5	72.4										

Patient Survival

	Era 1: 1/1/88-4/30/92			Era 2: 5/1/92-4/30/94			Overall: 1/1/88-4/30/94						
Time Point	No. of Pts. <sup>4</sup>	Act. Rate (%)	Exp. Rate (%)	No. of Pts. <sup>4</sup>	Act. Rate (%)	Exp. Rate (%)	No. of Pts. <sup>4</sup>	No. <sup>1,5</sup> w/CFU	No. <sup>5</sup> Died	Act. Rate (%)	Exp. Rate (%)	Diff. (%)	p- <sup>2</sup> value
1 Month	11	90.9	91.6	2	50.0	89.8	13	13.0	2.0	84.6	91.3	-6.7	0.39
1 Year	11	54.5	81.2	2	0.0	78.4	13	13.0	7.0	46.2	80.8	-34.6	<0.01*
Cond. <sup>3</sup> 3 Years	6	83.3	90.3				6	6.0	1.0	83.3	90.3	-6.9	0.57
3 Years <sup>3</sup>		45.5	73.3										

Notes: <sup>1</sup> No. with complete follow-up (CFU) is the total of the number of patients (grafts) whose status was known during the specified time interval.

<sup>2</sup> A p-value followed by an \* indicates that the difference is statistically significant at the 0.05 level.

<sup>3</sup> Conditional 3 year survival rates are the survival rates conditional on survival at 1 year. These are computed based on transplants between 1/1/88 and 4/30/92. Three year survival rates are computed by multiplying the 1 year and the conditional 3 year survival rates.

<sup>4</sup> The numbers of patients in Era 1 and Era 2 do not necessarily add up to the number of patients in the overall period, due to repeat transplants in different eras for some patients.

<sup>5</sup> No. w/CFU or No. Died may be fractional if patients received more than one transplant at the program.

Source: UNOS OPTN/Scientific Registry data.

**Heart Transplants: January 1, 1988 - April 30, 1994**  
**Donor and Recipient Characteristics: Program and National Frequencies**

**Rush-Presbyterian-St Luke's Medical Center - Chicago IL**  
**Provider Number 140119 (ILPL)**

		----- Program -----		--- National ---	
		Number	%	Number	%
<b>Total Transplants and Percentages</b>		<b>13</b>	<b>100.0</b>	<b>12627</b>	<b>100.0</b>
<b>Donor Age</b>	0-5	1	7.7	799	6.3
	6-10	0	0.0	274	2.2
	11-17	2	15.4	2029	16.1
	18-49	10	76.9	8923	70.7
	50-64	0	0.0	589	4.7
	65+	0	0.0	12	0.1
	Not Reported	0	0.0	1	0.0
<b>Donor Gender</b>	Female	4	30.8	3728	29.5
	Male	9	69.2	8899	70.5
<b>Donor Race</b>	White	9	69.2	10036	79.5
	Black	2	15.4	1263	10.0
	Hispanic	2	15.4	1143	9.1
	Asian	0	0.0	90	0.7
	Other	0	0.0	87	0.7
	Not Reported	0	0.0	8	0.1
<b>Recipient Age</b>	<1	1	7.7	549	4.3
	1-10	0	0.0	431	3.4
	11-17	0	0.0	358	2.8
	18-49	2	15.4	4493	35.6
	50-64	10	76.9	6373	50.5
	65+	0	0.0	423	3.3
<b>Recipient Gender</b>	Female	5	38.5	2761	21.9
	Male	8	61.5	9866	78.1
<b>Recipient Race</b>	White	10	76.9	10504	83.2
	Black	2	15.4	1206	9.6
	Hispanic	0	0.0	570	4.5
	Asian	0	0.0	125	1.0
	Other	1	7.7	216	1.7
	Not Reported	0	0.0	6	0.0

		----- Program -----		--- National ---	
		Number	%	Number	%
<b>Previous Heart Transplant</b>	No	13	100.0	12231	96.9
	Yes	0	0.0	344	2.7
	Not Reported	0	0.0	52	0.4
<b>On Ventilator at Transplant</b>	No	13	100.0	11892	94.2
	Yes	0	0.0	663	5.3
	Not Reported	0	0.0	72	0.6
<b>On VAD at Transplant</b>	No	13	100.0	12187	96.5
	Yes	0	0.0	366	2.9
	Not Reported	0	0.0	74	0.6
<b>On IABP at Transplant</b>	No	12	92.3	11754	93.1
	Yes	1	7.7	801	6.3
	Not Reported	0	0.0	72	0.6
<b>Diagnosis at Transplant</b>	Coronary Artery Disease	5	38.5	5222	41.4
	Cardiomyopathy	5	38.5	5779	45.8
	Eisenmenger's Syndrome/Congenital	2	15.4	933	7.4
	Valvular Heart Disease	1	7.7	476	3.8
	Other Diagnosis	0	0.0	183	1.4
	Not Reported	0	0.0	34	0.3
<b>Medical Condition at Transplant</b>	Not Hospitalized	7	53.8	5606	44.4
	Hospitalized	1	7.7	986	7.8
	In ICU	5	38.5	6019	47.7
	Not Reported	0	0.0	16	0.1
<b>Cold Ischemia Time</b>	Up to 2 hrs	0	0.0	3458	27.4
	> 2 - 2.5 hrs	2	15.4	2271	18.0
	> 2.5 - 3 hrs	2	15.4	2408	19.1
	> 3 - 3.5 hrs	8	61.5	1949	15.4
	> 3.5 hrs	1	7.7	2453	19.4
	Not Reported	0	0.0	88	0.7
<b>Year of Transplant</b>	1988	1	7.7	1649	13.1
	1989	6	46.2	1677	13.3
	1990	0	0.0	2071	16.4
	1991	3	23.1	2098	16.6
	1992	2	15.4	2145	17.0
	1993	1	7.7	2266	17.9
	1994	0	0.0	721	5.7

Source: UNOS OPTN/Scientific Registry data.

## Heart Transplants: January 1, 1988 - April 30, 1994

Survival Report for OSF St Francis Medical Center - Peoria IL  
Provider Number 140067 (ILSF)Graft Survival

	Era 1: 1/1/88-4/30/92			Era 2: 5/1/92-4/30/94			Overall: 1/1/88-4/30/94						
Time Point	No. of TX	Act. Rate (%)	Exp. Rate (%)	No. of TX	Act. Rate (%)	Exp. Rate (%)	No. of TX	No. <sup>1</sup> w/CFU	No. Failed	Act. Rate (%)	Exp. Rate (%)	Diff. (%)	p- <sup>2</sup> value
1 Month	48	87.5	90.7	20	95.0	91.8	68	68	7	89.7	91.0	-1.3	0.70
1 Year	48	81.3	80.7	20	95.0	81.9	68	68	10	85.3	81.1	4.2	0.36
Cond. <sup>3</sup> 3 Years	39	94.9	90.4				39	39	2	94.9	90.4	4.5	0.34
3 Years <sup>3</sup>		77.1	72.9										

Patient Survival

	Era 1: 1/1/88-4/30/92			Era 2: 5/1/92-4/30/94			Overall: 1/1/88-4/30/94						
Time Point	No. of Pts. <sup>4</sup>	Act. Rate (%)	Exp. Rate (%)	No. of Pts. <sup>4</sup>	Act. Rate (%)	Exp. Rate (%)	No. of Pts. <sup>4</sup>	No. <sup>1,5</sup> w/CFU	No. <sup>5</sup> Died	Act. Rate (%)	Exp. Rate (%)	Diff. (%)	p- <sup>2</sup> value
1 Month	47	89.4	91.5	20	95.0	92.2	67	67.0	6.0	91.0	91.7	-0.6	0.85
1 Year	47	83.0	81.9	20	95.0	82.4	67	67.0	9.0	86.6	82.0	4.5	0.32
Cond. <sup>3</sup> 3 Years	39	94.9	91.0				39	39.0	2.0	94.9	91.0	3.9	0.40
3 Years <sup>3</sup>		78.7	74.5										

Notes: <sup>1</sup> No. with complete follow-up (CFU) is the total of the number of patients (grafts) whose status was known during the specified time interval.

<sup>2</sup> A p-value followed by an \* indicates that the difference is statistically significant at the 0.05 level.

<sup>3</sup> Conditional 3 year survival rates are the survival rates conditional on survival at 1 year. These are computed based on transplants between 1/1/88 and 4/30/92. Three year survival rates are computed by multiplying the 1 year and the conditional 3 year survival rates.

<sup>4</sup> The numbers of patients in Era 1 and Era 2 do not necessarily add up to the number of patients in the overall period, due to repeat transplants in different eras for some patients.

<sup>5</sup> No. w/CFU or No. Died may be fractional if patients received more than one transplant at the program.

Source: UNOS OPTN/Scientific Registry data.

**Heart Transplants: January 1, 1988 - April 30, 1994**  
**Donor and Recipient Characteristics: Program and National Frequencies**

**OSF St Francis Medical Center - Peoria IL**  
**Provider Number 140067 (ILSF)**

		----- Program -----		--- National ---	
		Number	%	Number	%
<b>Total Transplants and Percentages</b>		<b>68</b>	<b>100.0</b>	<b>12627</b>	<b>100.0</b>
<b>Donor Age</b>	0-5	1	1.5	799	6.3
	6-10	1	1.5	274	2.2
	11-17	7	10.3	2029	16.1
	18-49	54	79.4	8923	70.7
	50-64	5	7.4	589	4.7
	65+	0	0.0	12	0.1
	Not Reported	0	0.0	1	0.0
<b>Donor Gender</b>	Female	21	30.9	3728	29.5
	Male	47	69.1	8899	70.5
<b>Donor Race</b>	White	49	72.1	10036	79.5
	Black	16	23.5	1263	10.0
	Hispanic	3	4.4	1143	9.1
	Asian	0	0.0	90	0.7
	Other	0	0.0	87	0.7
	Not Reported	0	0.0	8	0.1
<b>Recipient Age</b>	<1	1	1.5	549	4.3
	1-10	0	0.0	431	3.4
	11-17	1	1.5	358	2.8
	18-49	24	35.3	4493	35.6
	50-64	39	57.4	6373	50.5
	65+	3	4.4	423	3.3
<b>Recipient Gender</b>	Female	12	17.6	2761	21.9
	Male	56	82.4	9866	78.1
<b>Recipient Race</b>	White	63	92.6	10504	83.2
	Black	2	2.9	1206	9.6
	Hispanic	1	1.5	570	4.5
	Asian	1	1.5	125	1.0
	Other	1	1.5	216	1.7
	Not Reported	0	0.0	6	0.0



		----- Program -----		--- National ---	
		Number	%	Number	%
<b>Previous Heart Transplant</b>	No	66	97.1	12231	96.9
	Yes	1	1.5	344	2.7
	Not Reported	1	1.5	52	0.4
<b>On Ventilator at Transplant</b>	No	58	85.3	11892	94.2
	Yes	10	14.7	663	5.3
	Not Reported	0	0.0	72	0.6
<b>On VAD at Transplant</b>	No	67	98.5	12187	96.5
	Yes	1	1.5	366	2.9
	Not Reported	0	0.0	74	0.6
<b>On IABP at Transplant</b>	No	54	79.4	11754	93.1
	Yes	14	20.6	801	6.3
	Not Reported	0	0.0	72	0.6
<b>Diagnosis at Transplant</b>	Coronary Artery Disease	35	51.5	5222	41.4
	Cardiomyopathy	31	45.6	5779	45.8
	Eisenmenger's Syndrome/Congenital	1	1.5	933	7.4
	Valvular Heart Disease	1	1.5	476	3.8
	Other Diagnosis	0	0.0	183	1.4
	Not Reported	0	0.0	34	0.3
<b>Medical Condition at Transplant</b>	Not Hospitalized	23	33.8	5606	44.4
	Hospitalized	11	16.2	986	7.8
	In ICU	34	50.0	6019	47.7
	Not Reported	0	0.0	16	0.1
<b>Cold Ischemia Time</b>	Up to 2 hrs	14	20.6	3458	27.4
	> 2 - 2.5 hrs	34	50.0	2271	18.0
	> 2.5 - 3 hrs	13	19.1	2408	19.1
	> 3 - 3.5 hrs	4	5.9	1949	15.4
	> 3.5 hrs	3	4.4	2453	19.4
	Not Reported	0	0.0	88	0.7
<b>Year of Transplant</b>	1988	8	11.8	1649	13.1
	1989	9	13.2	1677	13.3
	1990	13	19.1	2071	16.4
	1991	14	20.6	2098	16.6
	1992	10	14.7	2145	17.0
	1993	9	13.2	2266	17.9
	1994	5	7.4	721	5.7

Source: UNOS OPTN/Scientific Registry data.

## Heart Transplants: January 1, 1988 - April 30, 1994

Survival Report for University of Chicago Medical Center - Chicago IL  
Provider Number 140088 (ILUC)Graft Survival

	Era 1: 1/1/88-4/30/92			Era 2: 5/1/92-4/30/94			Overall: 1/1/88-4/30/94						
Time Point	No. of TX	Act. Rate (%)	Exp. Rate (%)	No. of TX	Act. Rate (%)	Exp. Rate (%)	No. of TX	No. <sup>1</sup> w/CFU	No. Failed	Act. Rate (%)	Exp. Rate (%)	Diff. (%)	p- <sup>2</sup> value
1 Month	11	100.0	92.2	9	88.0	91.1	20	18	1	94.8	91.8	3.1	0.62
1 Year	11	72.7	82.3	9	86.0	79.1	20	18	4	77.9	81.1	-3.1	0.73
Cond. <sup>3</sup> 3 Years	8	100.0	90.3				8	6	0	100.0	90.3	9.7	0.38
3 Years <sup>3</sup>		72.7	74.3										

Patient Survival

	Era 1: 1/1/88-4/30/92			Era 2: 5/1/92-4/30/94			Overall: 1/1/88-4/30/94						
Time Point	No. of Pts. <sup>4</sup>	Act. Rate (%)	Exp. Rate (%)	No. of Pts. <sup>4</sup>	Act. Rate (%)	Exp. Rate (%)	No. of Pts. <sup>4</sup>	No. <sup>1,5</sup> w/CFU	No. <sup>5</sup> Died	Act. Rate (%)	Exp. Rate (%)	Diff. (%)	p- <sup>2</sup> value
1 Month	11	100.0	92.6	9	88.0	91.3	20	18.0	1.0	94.8	92.0	2.8	0.65
1 Year	11	72.7	83.1	9	86.0	79.7	20	18.0	4.0	77.9	81.7	-3.8	0.67
Cond. <sup>3</sup> 3 Years	8	100.0	90.9				8	6.0	0.0	100.0	90.9	9.1	0.40
3 Years <sup>3</sup>		72.7	75.5										

Notes: <sup>1</sup> No. with complete follow-up (CFU) is the total of the number of patients (grafts) whose status was known during the specified time interval.

<sup>2</sup> A p-value followed by an \* indicates that the difference is statistically significant at the 0.05 level.

<sup>3</sup> Conditional 3 year survival rates are the survival rates conditional on survival at 1 year. These are computed based on transplants between 1/1/88 and 4/30/92. Three year survival rates are computed by multiplying the 1 year and the conditional 3 year survival rates.

<sup>4</sup> The numbers of patients in Era 1 and Era 2 do not necessarily add up to the number of patients in the overall period, due to repeat transplants in different eras for some patients.

<sup>5</sup> No. w/CFU or No. Died may be fractional if patients received more than one transplant at the program.

Source: UNOS OPTN/Scientific Registry data.

**Heart Transplants: January 1, 1988 - April 30, 1994**  
**Donor and Recipient Characteristics: Program and National Frequencies**

**University of Chicago Medical Center - Chicago IL**  
**Provider Number 140088 (ILUC)**

		----- Program -----		--- National ---	
		Number	%	Number	%
<b>Total Transplants and Percentages</b>		<b>20</b>	<b>100.0</b>	<b>12627</b>	<b>100.0</b>
<b>Donor Age</b>	0-5	0	0.0	799	6.3
	6-10	0	0.0	274	2.2
	11-17	2	10.0	2029	16.1
	18-49	18	90.0	8923	70.7
	50-64	0	0.0	589	4.7
	65+	0	0.0	12	0.1
	Not Reported	0	0.0	1	0.0
<b>Donor Gender</b>	Female	7	35.0	3728	29.5
	Male	13	65.0	8899	70.5
<b>Donor Race</b>	White	19	95.0	10036	79.5
	Black	1	5.0	1263	10.0
	Hispanic	0	0.0	1143	9.1
	Asian	0	0.0	90	0.7
	Other	0	0.0	87	0.7
	Not Reported	0	0.0	8	0.1
<b>Recipient Age</b>	<1	0	0.0	549	4.3
	1-10	0	0.0	431	3.4
	11-17	1	5.0	358	2.8
	18-49	8	40.0	4493	35.6
	50-64	11	55.0	6373	50.5
	65+	0	0.0	423	3.3
<b>Recipient Gender</b>	Female	4	20.0	2761	21.9
	Male	16	80.0	9866	78.1
<b>Recipient Race</b>	White	13	65.0	10504	83.2
	Black	7	35.0	1206	9.6
	Hispanic	0	0.0	570	4.5
	Asian	0	0.0	125	1.0
	Other	0	0.0	216	1.7
	Not Reported	0	0.0	6	0.0

		----- Program -----		--- National ---	
		Number	%	Number	%
<b>Previous Heart Transplant</b>	No	20	100.0	12231	96.9
	Yes	0	0.0	344	2.7
	Not Reported	0	0.0	52	0.4
<b>On Ventilator at Transplant</b>	No	17	85.0	11892	94.2
	Yes	3	15.0	663	5.3
	Not Reported	0	0.0	72	0.6
<b>On VAD at Transplant</b>	No	20	100.0	12187	96.5
	Yes	0	0.0	366	2.9
	Not Reported	0	0.0	74	0.6
<b>On IABP at Transplant</b>	No	18	90.0	11754	93.1
	Yes	2	10.0	801	6.3
	Not Reported	0	0.0	72	0.6
<b>Diagnosis at Transplant</b>	Coronary Artery Disease	9	45.0	5222	41.4
	Cardiomyopathy	10	50.0	5779	45.8
	Eisenmenger's Syndrome/Congenital	0	0.0	933	7.4
	Valvular Heart Disease	1	5.0	476	3.8
	Other Diagnosis	0	0.0	183	1.4
	Not Reported	0	0.0	34	0.3
<b>Medical Condition at Transplant</b>	Not Hospitalized	2	10.0	5606	44.4
	Hospitalized	6	30.0	986	7.8
	In ICU	12	60.0	6019	47.7
	Not Reported	0	0.0	16	0.1
<b>Cold Ischemia Time</b>	Up to 2 hrs	3	15.0	3458	27.4
	> 2 - 2.5 hrs	4	20.0	2271	18.0
	> 2.5 - 3 hrs	7	35.0	2408	19.1
	> 3 - 3.5 hrs	2	10.0	1949	15.4
	> 3.5 hrs	4	20.0	2453	19.4
	Not Reported	0	0.0	88	0.7
<b>Year of Transplant</b>	1988	2	10.0	1649	13.1
	1989	2	10.0	1677	13.3
	1990	3	15.0	2071	16.4
	1991	3	15.0	2098	16.6
	1992	5	25.0	2145	17.0
	1993	3	15.0	2266	17.9
	1994	2	10.0	721	5.7

Source: UNOS OPTN/Scientific Registry data.

**Response From: University of Chicago Medical Center  
5841 Maryland Avenue, Chicago, IL 60637  
Provider Number 140088 (ILUC)**

May 8, 1997

The University of Chicago Hospital Medical Center Heart Transplant Program was begun in 1984. In the period of time from January 1, 1988, to April 30, 1994, twenty patients underwent heart transplantation at the University of Chicago Hospitals with a one month survival rate of 94% and a one year survival rate of 78%. In the period of time from January 1, 1988, to April 30, 1994, the three year survival rate was identical to the one year survival rate of 78%. This indicated that none of the patients followed from one to three years died or had need for retransplantation.

The survival report provided by UNOS is an accurate reflection of the commitment to the care and standards of excellence found at the University of Chicago Hospital Transplant Program. The survival rates presented were adjusted for a number of factors which influenced the risk of heart transplantation. According to the figures presented by UNOS, the University of Chicago Hospital Heart Transplant Center has survivals at one month, one year and three years which are very similar to the predicted survival rates for patients with similar risk factors. This data reflects a limited number of patients, but based on the good experience, we plan to significantly expand the program.

The University of Chicago Hospital Heart Transplant Center strives to provide the finest patient care in the United States and we are ever more committed to continue to provide the highest quality of care to our patients.

Mario Albertucci, M.D.  
Assistant Professor



## Heart Transplants: January 1, 1988 - April 30, 1994

Survival Report for University of Illinois Hospital - Chicago IL  
Provider Number 140150 (ILUI)Graft Survival

	Era 1: 1/1/88-4/30/92			Era 2: 5/1/92-4/30/94			Overall: 1/1/88-4/30/94						
Time Point	No. of TX	Act. Rate (%)	Exp. Rate (%)	No. of TX	Act. Rate (%)	Exp. Rate (%)	No. of TX	No. <sup>1</sup> w/CFU	No. Failed	Act. Rate (%)	Exp. Rate (%)	Diff. (%)	p- <sup>2</sup> value
1 Month	14	100.0	93.6				14	14	0	100.0	93.6	6.4	0.33
1 Year	14	78.6	82.4				14	14	3	78.6	82.4	-3.8	0.71
Cond. <sup>3</sup> 3 Years	11	54.5	87.6				11	11	5	54.5	87.6	-33.1	<0.01*
3 Years <sup>3</sup>		42.9	72.2										

Patient Survival

	Era 1: 1/1/88-4/30/92			Era 2: 5/1/92-4/30/94			Overall: 1/1/88-4/30/94						
Time Point	No. of Pts. <sup>4</sup>	Act. Rate (%)	Exp. Rate (%)	No. of Pts. <sup>4</sup>	Act. Rate (%)	Exp. Rate (%)	No. of Pts. <sup>4</sup>	No. <sup>1,5</sup> w/CFU	No. <sup>5</sup> Died	Act. Rate (%)	Exp. Rate (%)	Diff. (%)	p- <sup>2</sup> value
1 Month	14	100.0	93.7				14	14.0	0.0	100.0	93.7	6.3	0.33
1 Year	14	78.6	82.9				14	14.0	3.0	78.6	82.9	-4.3	0.66
Cond. <sup>3</sup> 3 Years	11	54.5	88.1				11	11.0	5.0	54.5	88.1	-33.5	<0.01*
3 Years <sup>3</sup>		42.9	73.0										

Notes: <sup>1</sup> No. with complete follow-up (CFU) is the total of the number of patients (grafts) whose status was known during the specified time interval.

<sup>2</sup> A p-value followed by an \* indicates that the difference is statistically significant at the 0.05 level.

<sup>3</sup> Conditional 3 year survival rates are the survival rates conditional on survival at 1 year. These are computed based on transplants between 1/1/88 and 4/30/92. Three year survival rates are computed by multiplying the 1 year and the conditional 3 year survival rates.

<sup>4</sup> The numbers of patients in Era 1 and Era 2 do not necessarily add up to the number of patients in the overall period, due to repeat transplants in different eras for some patients.

<sup>5</sup> No. w/CFU or No. Died may be fractional if patients received more than one transplant at the program.

Source: UNOS OPTN/Scientific Registry data.



**Heart Transplants: January 1, 1988 - April 30, 1994**  
**Donor and Recipient Characteristics: Program and National Frequencies**

**University of Illinois Hospital - Chicago IL**  
**Provider Number 140150 (ILUI)**

		----- Program -----		--- National ---	
		Number	%	Number	%
<b>Total Transplants and Percentages</b>		<b>14</b>	<b>100.0</b>	<b>12627</b>	<b>100.0</b>
<b>Donor Age</b>	0-5	1	7.1	799	6.3
	6-10	0	0.0	274	2.2
	11-17	1	7.1	2029	16.1
	18-49	12	85.7	8923	70.7
	50-64	0	0.0	589	4.7
	65+	0	0.0	12	0.1
	Not Reported	0	0.0	1	0.0
<b>Donor Gender</b>	Female	2	14.3	3728	29.5
	Male	12	85.7	8899	70.5
<b>Donor Race</b>	White	9	64.3	10036	79.5
	Black	3	21.4	1263	10.0
	Hispanic	2	14.3	1143	9.1
	Asian	0	0.0	90	0.7
	Other	0	0.0	87	0.7
	Not Reported	0	0.0	8	0.1
<b>Recipient Age</b>	<1	0	0.0	549	4.3
	1-10	0	0.0	431	3.4
	11-17	0	0.0	358	2.8
	18-49	7	50.0	4493	35.6
	50-64	7	50.0	6373	50.5
	65+	0	0.0	423	3.3
<b>Recipient Gender</b>	Female	4	28.6	2761	21.9
	Male	10	71.4	9866	78.1
<b>Recipient Race</b>	White	5	35.7	10504	83.2
	Black	8	57.1	1206	9.6
	Hispanic	1	7.1	570	4.5
	Asian	0	0.0	125	1.0
	Other	0	0.0	216	1.7
	Not Reported	0	0.0	6	0.0

		----- Program -----		--- National ---	
		Number	%	Number	%
<b>Previous Heart Transplant</b>	No	14	100.0	12231	96.9
	Yes	0	0.0	344	2.7
	Not Reported	0	0.0	52	0.4
<b>On Ventilator at Transplant</b>	No	14	100.0	11892	94.2
	Yes	0	0.0	663	5.3
	Not Reported	0	0.0	72	0.6
<b>On VAD at Transplant</b>	No	14	100.0	12187	96.5
	Yes	0	0.0	366	2.9
	Not Reported	0	0.0	74	0.6
<b>On IABP at Transplant</b>	No	11	78.6	11754	93.1
	Yes	3	21.4	801	6.3
	Not Reported	0	0.0	72	0.6
<b>Diagnosis at Transplant</b>	Coronary Artery Disease	8	57.1	5222	41.4
	Cardiomyopathy	6	42.9	5779	45.8
	Eisenmenger's Syndrome/Congenital	0	0.0	933	7.4
	Valvular Heart Disease	0	0.0	476	3.8
	Other Diagnosis	0	0.0	183	1.4
	Not Reported	0	0.0	34	0.3
<b>Medical Condition at Transplant</b>	Not Hospitalized	4	28.6	5606	44.4
	Hospitalized	0	0.0	986	7.8
	In ICU	10	71.4	6019	47.7
	Not Reported	0	0.0	16	0.1
<b>Cold Ischemia Time</b>	Up to 2 hrs	2	14.3	3458	27.4
	> 2 - 2.5 hrs	1	7.1	2271	18.0
	> 2.5 - 3 hrs	2	14.3	2408	19.1
	> 3 - 3.5 hrs	0	0.0	1949	15.4
	> 3.5 hrs	0	0.0	2453	19.4
	Not Reported	9	64.3	88	0.7
<b>Year of Transplant</b>	1988	14	100.0	1649	13.1
	1989	0	0.0	1677	13.3
	1990	0	0.0	2071	16.4
	1991	0	0.0	2098	16.6
	1992	0	0.0	2145	17.0
	1993	0	0.0	2266	17.9
	1994	0	0.0	721	5.7

Source: UNOS OPTN/Scientific Registry data.

## Heart Transplants: January 1, 1988 - April 30, 1994

Survival Report for Hines VA Hospital - Hines IL  
Provider Number 14007F (ILVA)Graft Survival

	Era 1: 1/1/88-4/30/92			Era 2: 5/1/92-4/30/94			Overall: 1/1/88-4/30/94						
Time Point	No. of TX	Act. Rate (%)	Exp. Rate (%)	No. of TX	Act. Rate (%)	Exp. Rate (%)	No. of TX	No. <sup>1</sup> w/CFU	No. Failed	Act. Rate (%)	Exp. Rate (%)	Diff. (%)	p- <sup>2</sup> value
1 Month	27	88.9	92.6	11	81.8	93.0	38	38	5	86.8	92.7	-5.9	0.16
1 Year	27	63.0	82.8	11	54.5	82.3	38	38	15	60.5	82.6	-22.1	<0.01*
Cond. <sup>3</sup> 3 Years	17	82.4	91.1				17	17	3	82.4	91.1	-8.7	0.21
3 Years <sup>3</sup>		51.9	75.4										

Patient Survival

	Era 1: 1/1/88-4/30/92			Era 2: 5/1/92-4/30/94			Overall: 1/1/88-4/30/94						
Time Point	No. of Pts. <sup>4</sup>	Act. Rate (%)	Exp. Rate (%)	No. of Pts. <sup>4</sup>	Act. Rate (%)	Exp. Rate (%)	No. of Pts. <sup>4</sup>	No. <sup>1,5</sup> w/CFU	No. <sup>5</sup> Died	Act. Rate (%)	Exp. Rate (%)	Diff. (%)	p- <sup>2</sup> value
1 Month	27	88.9	93.0	11	81.8	93.1	38	38.0	5.0	86.8	93.0	-6.2	0.13
1 Year	27	63.0	83.4	11	54.5	82.6	38	38.0	15.0	60.5	83.2	-22.7	<0.01*
Cond. <sup>3</sup> 3 Years	17	82.4	91.4				17	17.0	3.0	82.4	91.4	-9.1	0.18
3 Years <sup>3</sup>		51.9	76.3										

Notes: <sup>1</sup> No. with complete follow-up (CFU) is the total of the number of patients (grafts) whose status was known during the specified time interval.

<sup>2</sup> A p-value followed by an \* indicates that the difference is statistically significant at the 0.05 level.

<sup>3</sup> Conditional 3 year survival rates are the survival rates conditional on survival at 1 year. These are computed based on transplants between 1/1/88 and 4/30/92. Three year survival rates are computed by multiplying the 1 year and the conditional 3 year survival rates.

<sup>4</sup> The numbers of patients in Era 1 and Era 2 do not necessarily add up to the number of patients in the overall period, due to repeat transplants in different eras for some patients.

<sup>5</sup> No. w/CFU or No. Died may be fractional if patients received more than one transplant at the program.

Source: UNOS OPTN/Scientific Registry data.

**Heart Transplants: January 1, 1988 - April 30, 1994**  
**Donor and Recipient Characteristics: Program and National Frequencies**

**Hines VA Hospital - Hines IL**  
**Provider Number 14007F (ILVA)**

		----- Program -----		--- National ---	
		Number	%	Number	%
<b>Total Transplants and Percentages</b>		<b>38</b>	<b>100.0</b>	<b>12627</b>	<b>100.0</b>
<b>Donor Age</b>	0-5	0	0.0	799	6.3
	6-10	0	0.0	274	2.2
	11-17	6	15.8	2029	16.1
	18-49	32	84.2	8923	70.7
	50-64	0	0.0	589	4.7
	65+	0	0.0	12	0.1
	Not Reported	0	0.0	1	0.0
<b>Donor Gender</b>	Female	5	13.2	3728	29.5
	Male	33	86.8	8899	70.5
<b>Donor Race</b>	White	31	81.6	10036	79.5
	Black	7	18.4	1263	10.0
	Hispanic	0	0.0	1143	9.1
	Asian	0	0.0	90	0.7
	Other	0	0.0	87	0.7
	Not Reported	0	0.0	8	0.1
<b>Recipient Age</b>	<1	0	0.0	549	4.3
	1-10	0	0.0	431	3.4
	11-17	0	0.0	358	2.8
	18-49	14	36.8	4493	35.6
	50-64	22	57.9	6373	50.5
	65+	2	5.3	423	3.3
<b>Recipient Gender</b>	Female	1	2.6	2761	21.9
	Male	37	97.4	9866	78.1
<b>Recipient Race</b>	White	31	81.6	10504	83.2
	Black	5	13.2	1206	9.6
	Hispanic	1	2.6	570	4.5
	Asian	0	0.0	125	1.0
	Other	1	2.6	216	1.7
	Not Reported	0	0.0	6	0.0

		----- Program -----		--- National ---	
		Number	%	Number	%
<b>Previous Heart Transplant</b>	No	37	97.4	12231	96.9
	Yes	1	2.6	344	2.7
	Not Reported	0	0.0	52	0.4
<b>On Ventilator at Transplant</b>	No	37	97.4	11892	94.2
	Yes	1	2.6	663	5.3
	Not Reported	0	0.0	72	0.6
<b>On VAD at Transplant</b>	No	38	100.0	12187	96.5
	Yes	0	0.0	366	2.9
	Not Reported	0	0.0	74	0.6
<b>On IABP at Transplant</b>	No	30	78.9	11754	93.1
	Yes	8	21.1	801	6.3
	Not Reported	0	0.0	72	0.6
<b>Diagnosis at Transplant</b>	Coronary Artery Disease	17	44.7	5222	41.4
	Cardiomyopathy	18	47.4	5779	45.8
	Eisenmenger's Syndrome/Congenital	0	0.0	933	7.4
	Valvular Heart Disease	2	5.3	476	3.8
	Other Diagnosis	1	2.6	183	1.4
	Not Reported	0	0.0	34	0.3
<b>Medical Condition at Transplant</b>	Not Hospitalized	12	31.6	5606	44.4
	Hospitalized	1	2.6	986	7.8
	In ICU	25	65.8	6019	47.7
	Not Reported	0	0.0	16	0.1
<b>Cold Ischemia Time</b>	Up to 2 hrs	5	13.2	3458	27.4
	> 2 - 2.5 hrs	10	26.3	2271	18.0
	> 2.5 - 3 hrs	10	26.3	2408	19.1
	> 3 - 3.5 hrs	6	15.8	1949	15.4
	> 3.5 hrs	7	18.4	2453	19.4
	Not Reported	0	0.0	88	0.7
<b>Year of Transplant</b>	1988	8	21.1	1649	13.1
	1989	10	26.3	1677	13.3
	1990	4	10.5	2071	16.4
	1991	3	7.9	2098	16.6
	1992	7	18.4	2145	17.0
	1993	6	15.8	2266	17.9
	1994	0	0.0	721	5.7

Source: UNOS OPTN/Scientific Registry data.

## Heart Transplants: January 1, 1988 - April 30, 1994

Survival Report for Methodist Hospital of Indiana - Indianapolis IN  
Provider Number 150056 (INIM)Graft Survival

	Era 1: 1/1/88-4/30/92			Era 2: 5/1/92-4/30/94			Overall: 1/1/88-4/30/94						
Time Point	No. of TX	Act. Rate (%)	Exp. Rate (%)	No. of TX	Act. Rate (%)	Exp. Rate (%)	No. of TX	No. <sup>1</sup> w/CFU	No. Failed	Act. Rate (%)	Exp. Rate (%)	Diff. (%)	p- <sup>2</sup> value
1 Month	80	87.5	92.3	33	90.9	92.9	113	113	13	88.5	92.4	-3.9	0.10
1 Year	80	75.0	82.6	33	87.9	83.4	113	113	24	78.8	82.9	-4.1	0.23
Cond. <sup>3</sup> 3 Years	60	91.5	90.8				60	58	5	91.5	90.8	0.7	0.84
3 Years <sup>3</sup>		68.7	75.0										

Patient Survival

	Era 1: 1/1/88-4/30/92			Era 2: 5/1/92-4/30/94			Overall: 1/1/88-4/30/94						
Time Point	No. of Pts. <sup>4</sup>	Act. Rate (%)	Exp. Rate (%)	No. of Pts. <sup>4</sup>	Act. Rate (%)	Exp. Rate (%)	No. of Pts. <sup>4</sup>	No. <sup>1,5</sup> w/CFU	No. <sup>5</sup> Died	Act. Rate (%)	Exp. Rate (%)	Diff. (%)	p- <sup>2</sup> value
1 Month	76	90.7	93.0	33	90.8	93.2	108	108.0	10.0	90.7	93.1	-2.4	0.32
1 Year	76	77.5	83.9	33	89.2	84.1	108	108.0	20.5	81.0	84.0	-2.9	0.39
Cond. <sup>3</sup> 3 Years	59	93.1	91.3				59	57.0	4.0	93.1	91.3	1.8	0.62
3 Years <sup>3</sup>		72.1	76.6										

Notes: <sup>1</sup> No. with complete follow-up (CFU) is the total of the number of patients (grafts) whose status was known during the specified time interval.

<sup>2</sup> A p-value followed by an \* indicates that the difference is statistically significant at the 0.05 level.

<sup>3</sup> Conditional 3 year survival rates are the survival rates conditional on survival at 1 year. These are computed based on transplants between 1/1/88 and 4/30/92. Three year survival rates are computed by multiplying the 1 year and the conditional 3 year survival rates.

<sup>4</sup> The numbers of patients in Era 1 and Era 2 do not necessarily add up to the number of patients in the overall period, due to repeat transplants in different eras for some patients.

<sup>5</sup> No. w/CFU or No. Died may be fractional if patients received more than one transplant at the program.

Source: UNOS OPTN/Scientific Registry data.



**Heart Transplants: January 1, 1988 - April 30, 1994**  
**Donor and Recipient Characteristics: Program and National Frequencies**

**Methodist Hospital of Indiana - Indianapolis IN**  
**Provider Number 150056 (INIM)**

		----- Program -----		--- National ---	
		Number	%	Number	%
<b>Total Transplants and Percentages</b>		<b>113</b>	<b>100.0</b>	<b>12627</b>	<b>100.0</b>
<b>Donor Age</b>	0-5	0	0.0	799	6.3
	6-10	0	0.0	274	2.2
	11-17	19	16.8	2029	16.1
	18-49	91	80.5	8923	70.7
	50-64	3	2.7	589	4.7
	65+	0	0.0	12	0.1
	Not Reported	0	0.0	1	0.0
<b>Donor Gender</b>	Female	19	16.8	3728	29.5
	Male	94	83.2	8899	70.5
<b>Donor Race</b>	White	103	91.2	10036	79.5
	Black	9	8.0	1263	10.0
	Hispanic	0	0.0	1143	9.1
	Asian	0	0.0	90	0.7
	Other	1	0.9	87	0.7
	Not Reported	0	0.0	8	0.1
<b>Recipient Age</b>	<1	0	0.0	549	4.3
	1-10	0	0.0	431	3.4
	11-17	0	0.0	358	2.8
	18-49	46	40.7	4493	35.6
	50-64	66	58.4	6373	50.5
	65+	1	0.9	423	3.3
<b>Recipient Gender</b>	Female	31	27.4	2761	21.9
	Male	82	72.6	9866	78.1
<b>Recipient Race</b>	White	99	87.6	10504	83.2
	Black	14	12.4	1206	9.6
	Hispanic	0	0.0	570	4.5
	Asian	0	0.0	125	1.0
	Other	0	0.0	216	1.7
	Not Reported	0	0.0	6	0.0

		----- Program -----		--- National ---	
		Number	%	Number	%
<b>Previous Heart Transplant</b>	No	106	93.8	12231	96.9
	Yes	7	6.2	344	2.7
	Not Reported	0	0.0	52	0.4
<b>On Ventilator at Transplant</b>	No	111	98.2	11892	94.2
	Yes	2	1.8	663	5.3
	Not Reported	0	0.0	72	0.6
<b>On VAD at Transplant</b>	No	110	97.3	12187	96.5
	Yes	3	2.7	366	2.9
	Not Reported	0	0.0	74	0.6
<b>On IABP at Transplant</b>	No	101	89.4	11754	93.1
	Yes	12	10.6	801	6.3
	Not Reported	0	0.0	72	0.6
<b>Diagnosis at Transplant</b>	Coronary Artery Disease	47	41.6	5222	41.4
	Cardiomyopathy	60	53.1	5779	45.8
	Eisenmenger's Syndrome/Congenital	1	0.9	933	7.4
	Valvular Heart Disease	4	3.5	476	3.8
	Other Diagnosis	0	0.0	183	1.4
	Not Reported	1	0.9	34	0.3
<b>Medical Condition at Transplant</b>	Not Hospitalized	34	30.1	5606	44.4
	Hospitalized	1	0.9	986	7.8
	In ICU	78	69.0	6019	47.7
	Not Reported	0	0.0	16	0.1
<b>Cold Ischemia Time</b>	Up to 2 hrs	54	47.8	3458	27.4
	> 2 - 2.5 hrs	10	8.8	2271	18.0
	> 2.5 - 3 hrs	21	18.6	2408	19.1
	> 3 - 3.5 hrs	18	15.9	1949	15.4
	> 3.5 hrs	10	8.8	2453	19.4
	Not Reported	0	0.0	88	0.7
<b>Year of Transplant</b>	1988	21	18.6	1649	13.1
	1989	17	15.0	1677	13.3
	1990	21	18.6	2071	16.4
	1991	12	10.6	2098	16.6
	1992	19	16.8	2145	17.0
	1993	15	13.3	2266	17.9
	1994	8	7.1	721	5.7

Source: UNOS OPTN/Scientific Registry data.

## Heart Transplants: January 1, 1988 - April 30, 1994

Survival Report for Indiana University Medical Center - Indianapolis IN  
Provider Number 150032 (INIU)Graft Survival

	Era 1: 1/1/88-4/30/92			Era 2: 5/1/92-4/30/94			Overall: 1/1/88-4/30/94						
Time Point	No. of TX	Act. Rate (%)	Exp. Rate (%)	No. of TX	Act. Rate (%)	Exp. Rate (%)	No. of TX	No. <sup>1</sup> w/CFU	No. Failed	Act. Rate (%)	Exp. Rate (%)	Diff. (%)	p- <sup>2</sup> value
1 Month	76	92.1	87.3	26	100.0	88.1	102	102	6	94.1	87.5	6.6	0.03*
1 Year	76	85.5	77.5	26	96.2	79.5	102	102	12	88.2	78.0	10.2	<0.01*
Cond. <sup>3</sup> 3 Years	65	96.9	90.6				65	65	2	96.9	90.6	6.3	0.08
3 Years <sup>3</sup>		82.9	70.3										

Patient Survival

	Era 1: 1/1/88-4/30/92			Era 2: 5/1/92-4/30/94			Overall: 1/1/88-4/30/94						
Time Point	No. of Pts. <sup>4</sup>	Act. Rate (%)	Exp. Rate (%)	No. of Pts. <sup>4</sup>	Act. Rate (%)	Exp. Rate (%)	No. of Pts. <sup>4</sup>	No. <sup>1,5</sup> w/CFU	No. <sup>5</sup> Died	Act. Rate (%)	Exp. Rate (%)	Diff. (%)	p- <sup>2</sup> value
1 Month	76	92.1	87.8	26	100.0	88.6	102	102.0	6.0	94.1	88.0	6.1	0.05*
1 Year	76	85.5	78.4	26	96.2	80.3	102	102.0	12.0	88.2	78.9	9.3	0.02*
Cond. <sup>3</sup> 3 Years	65	96.9	91.1				65	65.0	2.0	96.9	91.1	5.8	0.10
3 Years <sup>3</sup>		82.9	71.5										

Notes: <sup>1</sup> No. with complete follow-up (CFU) is the total of the number of patients (grafts) whose status was known during the specified time interval.

<sup>2</sup> A p-value followed by an \* indicates that the difference is statistically significant at the 0.05 level.

<sup>3</sup> Conditional 3 year survival rates are the survival rates conditional on survival at 1 year. These are computed based on transplants between 1/1/88 and 4/30/92. Three year survival rates are computed by multiplying the 1 year and the conditional 3 year survival rates.

<sup>4</sup> The numbers of patients in Era 1 and Era 2 do not necessarily add up to the number of patients in the overall period, due to repeat transplants in different eras for some patients.

<sup>5</sup> No. w/CFU or No. Died may be fractional if patients received more than one transplant at the program.

Source: UNOS OPTN/Scientific Registry data.

**Heart Transplants: January 1, 1988 - April 30, 1994**  
**Donor and Recipient Characteristics: Program and National Frequencies**

**Indiana University Medical Center - Indianapolis IN**  
**Provider Number 150032 (INIU)**

		----- Program -----		--- National ---	
		Number	%	Number	%
<b>Total Transplants and Percentages</b>		<b>102</b>	<b>100.0</b>	<b>12627</b>	<b>100.0</b>
<b>Donor Age</b>	0-5	23	22.5	799	6.3
	6-10	6	5.9	274	2.2
	11-17	16	15.7	2029	16.1
	18-49	56	54.9	8923	70.7
	50-64	1	1.0	589	4.7
	65+	0	0.0	12	0.1
	Not Reported	0	0.0	1	0.0
<b>Donor Gender</b>	Female	39	38.2	3728	29.5
	Male	63	61.8	8899	70.5
<b>Donor Race</b>	White	90	88.2	10036	79.5
	Black	10	9.8	1263	10.0
	Hispanic	1	1.0	1143	9.1
	Asian	1	1.0	90	0.7
	Other	0	0.0	87	0.7
	Not Reported	0	0.0	8	0.1
<b>Recipient Age</b>	<1	20	19.6	549	4.3
	1-10	11	10.8	431	3.4
	11-17	8	7.8	358	2.8
	18-49	35	34.3	4493	35.6
	50-64	27	26.5	6373	50.5
	65+	1	1.0	423	3.3
<b>Recipient Gender</b>	Female	26	25.5	2761	21.9
	Male	76	74.5	9866	78.1
<b>Recipient Race</b>	White	96	94.1	10504	83.2
	Black	5	4.9	1206	9.6
	Hispanic	0	0.0	570	4.5
	Asian	0	0.0	125	1.0
	Other	1	1.0	216	1.7
	Not Reported	0	0.0	6	0.0

		----- Program -----		--- National ---	
		Number	%	Number	%
<b>Previous Heart Transplant</b>	No	102	100.0	12231	96.9
	Yes	0	0.0	344	2.7
	Not Reported	0	0.0	52	0.4
<b>On Ventilator at Transplant</b>	No	83	81.4	11892	94.2
	Yes	19	18.6	663	5.3
	Not Reported	0	0.0	72	0.6
<b>On VAD at Transplant</b>	No	102	100.0	12187	96.5
	Yes	0	0.0	366	2.9
	Not Reported	0	0.0	74	0.6
<b>On IABP at Transplant</b>	No	83	81.4	11754	93.1
	Yes	19	18.6	801	6.3
	Not Reported	0	0.0	72	0.6
<b>Diagnosis at Transplant</b>	Coronary Artery Disease	32	31.4	5222	41.4
	Cardiomyopathy	35	34.3	5779	45.8
	Eisenmenger's Syndrome/Congenital	28	27.5	933	7.4
	Valvular Heart Disease	5	4.9	476	3.8
	Other Diagnosis	2	2.0	183	1.4
	Not Reported	0	0.0	34	0.3
<b>Medical Condition at Transplant</b>	Not Hospitalized	28	27.5	5606	44.4
	Hospitalized	1	1.0	986	7.8
	In ICU	73	71.6	6019	47.7
	Not Reported	0	0.0	16	0.1
<b>Cold Ischemia Time</b>	Up to 2 hrs	10	9.8	3458	27.4
	> 2 - 2.5 hrs	8	7.8	2271	18.0
	> 2.5 - 3 hrs	19	18.6	2408	19.1
	> 3 - 3.5 hrs	21	20.6	1949	15.4
	> 3.5 hrs	44	43.1	2453	19.4
	Not Reported	0	0.0	88	0.7
<b>Year of Transplant</b>	1988	17	16.7	1649	13.1
	1989	13	12.7	1677	13.3
	1990	14	13.7	2071	16.4
	1991	25	24.5	2098	16.6
	1992	13	12.7	2145	17.0
	1993	14	13.7	2266	17.9
	1994	6	5.9	721	5.7

Source: UNOS OPTN/Scientific Registry data.

## Heart Transplants: January 1, 1988 - April 30, 1994

Survival Report for The Lutheran Hospital of Ft. Wayne - Fort Wayne IN  
Provider Number 150017 (INLH)Graft Survival

	Era 1: 1/1/88-4/30/92			Era 2: 5/1/92-4/30/94			Overall: 1/1/88-4/30/94						
Time Point	No. of TX	Act. Rate (%)	Exp. Rate (%)	No. of TX	Act. Rate (%)	Exp. Rate (%)	No. of TX	No. <sup>1</sup> w/CFU	No. Failed	Act. Rate (%)	Exp. Rate (%)	Diff. (%)	p- <sup>2</sup> value
1 Month	63	88.9	91.1	21	81.0	92.2	84	84	11	86.9	91.4	-4.5	0.13
1 Year	63	77.8	81.4	21	66.7	83.8	84	84	21	75.0	82.0	-7.0	0.09
Cond. <sup>3</sup> 3 Years	49	100.0	91.0				49	49	0	100.0	91.0	9.0	0.03*
3 Years <sup>3</sup>		77.8	74.1										

Patient Survival

	Era 1: 1/1/88-4/30/92			Era 2: 5/1/92-4/30/94			Overall: 1/1/88-4/30/94						
Time Point	No. of Pts. <sup>4</sup>	Act. Rate (%)	Exp. Rate (%)	No. of Pts. <sup>4</sup>	Act. Rate (%)	Exp. Rate (%)	No. of Pts. <sup>4</sup>	No. <sup>1,5</sup> w/CFU	No. <sup>5</sup> Died	Act. Rate (%)	Exp. Rate (%)	Diff. (%)	p- <sup>2</sup> value
1 Month	63	88.9	91.5	21	81.0	92.6	84	84.0	11.0	86.9	91.7	-4.8	0.10
1 Year	63	77.8	82.0	21	66.7	84.4	84	84.0	21.0	75.0	82.6	-7.6	0.06
Cond. <sup>3</sup> 3 Years	49	100.0	91.4				49	49.0	0.0	100.0	91.4	8.6	0.03*
3 Years <sup>3</sup>		77.8	74.9										

Notes: <sup>1</sup> No. with complete follow-up (CFU) is the total of the number of patients (grafts) whose status was known during the specified time interval.

<sup>2</sup> A p-value followed by an \* indicates that the difference is statistically significant at the 0.05 level.

<sup>3</sup> Conditional 3 year survival rates are the survival rates conditional on survival at 1 year. These are computed based on transplants between 1/1/88 and 4/30/92. Three year survival rates are computed by multiplying the 1 year and the conditional 3 year survival rates.

<sup>4</sup> The numbers of patients in Era 1 and Era 2 do not necessarily add up to the number of patients in the overall period, due to repeat transplants in different eras for some patients.

<sup>5</sup> No. w/CFU or No. Died may be fractional if patients received more than one transplant at the program.

Source: UNOS OPTN/Scientific Registry data.



**Heart Transplants: January 1, 1988 - April 30, 1994**  
**Donor and Recipient Characteristics: Program and National Frequencies**

**The Lutheran Hospital of Ft. Wayne - Fort Wayne IN**  
**Provider Number 150017 (INLH)**

		----- Program -----		--- National ---	
		Number	%	Number	%
<b>Total Transplants and Percentages</b>		<b>84</b>	<b>100.0</b>	<b>12627</b>	<b>100.0</b>
<b>Donor Age</b>	0-5	0	0.0	799	6.3
	6-10	1	1.2	274	2.2
	11-17	16	19.0	2029	16.1
	18-49	60	71.4	8923	70.7
	50-64	7	8.3	589	4.7
	65+	0	0.0	12	0.1
	Not Reported	0	0.0	1	0.0
<b>Donor Gender</b>	Female	27	32.1	3728	29.5
	Male	57	67.9	8899	70.5
<b>Donor Race</b>	White	79	94.0	10036	79.5
	Black	5	6.0	1263	10.0
	Hispanic	0	0.0	1143	9.1
	Asian	0	0.0	90	0.7
	Other	0	0.0	87	0.7
	Not Reported	0	0.0	8	0.1
<b>Recipient Age</b>	<1	0	0.0	549	4.3
	1-10	0	0.0	431	3.4
	11-17	0	0.0	358	2.8
	18-49	19	22.6	4493	35.6
	50-64	55	65.5	6373	50.5
	65+	10	11.9	423	3.3
<b>Recipient Gender</b>	Female	17	20.2	2761	21.9
	Male	67	79.8	9866	78.1
<b>Recipient Race</b>	White	81	96.4	10504	83.2
	Black	0	0.0	1206	9.6
	Hispanic	1	1.2	570	4.5
	Asian	0	0.0	125	1.0
	Other	2	2.4	216	1.7
	Not Reported	0	0.0	6	0.0

		----- Program -----		--- National ---	
		Number	%	Number	%
Previous Heart Transplant	No	84	100.0	12231	96.9
	Yes	0	0.0	344	2.7
	Not Reported	0	0.0	52	0.4
On Ventilator at Transplant	No	80	95.2	11892	94.2
	Yes	3	3.6	663	5.3
	Not Reported	1	1.2	72	0.6
On VAD at Transplant	No	80	95.2	12187	96.5
	Yes	3	3.6	366	2.9
	Not Reported	1	1.2	74	0.6
On IABP at Transplant	No	77	91.7	11754	93.1
	Yes	6	7.1	801	6.3
	Not Reported	1	1.2	72	0.6
Diagnosis at Transplant	Coronary Artery Disease	55	65.5	5222	41.4
	Cardiomyopathy	26	31.0	5779	45.8
	Eisenmenger's Syndrome/Congenital	0	0.0	933	7.4
	Valvular Heart Disease	2	2.4	476	3.8
	Other Diagnosis	1	1.2	183	1.4
	Not Reported	0	0.0	34	0.3
Medical Condition at Transplant	Not Hospitalized	30	35.7	5606	44.4
	Hospitalized	9	10.7	986	7.8
	In ICU	45	53.6	6019	47.7
	Not Reported	0	0.0	16	0.1
Cold Ischemia Time	Up to 2 hrs	26	31.0	3458	27.4
	> 2 - 2.5 hrs	23	27.4	2271	18.0
	> 2.5 - 3 hrs	21	25.0	2408	19.1
	> 3 - 3.5 hrs	8	9.5	1949	15.4
	> 3.5 hrs	6	7.1	2453	19.4
	Not Reported	0	0.0	88	0.7
Year of Transplant	1988	18	21.4	1649	13.1
	1989	11	13.1	1677	13.3
	1990	18	21.4	2071	16.4
	1991	13	15.5	2098	16.6
	1992	13	15.5	2145	17.0
	1993	9	10.7	2266	17.9
	1994	2	2.4	721	5.7

Source: UNOS OPTN/Scientific Registry data.

**Response From: Lutheran Hospital of Fort Wayne  
7950 W. Jefferson Boulevard, Fort Wayne, IN 46804  
Provider Number 150017 (INLH)**

May 9, 1997

The Northern Indiana Heart Institute of Lutheran Hospital of Indiana is pleased to note that the UNOS "report card" for the specified time period (January 1988 through April 30, 1994) indicates that we have achieved acceptable survival rates in our heart transplant program. The UNOS data in fact indicate that this particular cohort of patients has a conditional three year survival rate which *exceeds* the expected rate (with a P value of 0.03). Caution should be used in extrapolating these data to evaluate our entire program. Nonetheless, we are understandably pleased with this particular "report card."

The heart transplant program of the Northern Indiana Heart Institute has been in existence for 12 years now with a five year survival rate of 75% (N=88) and a 10 year survival rate of 53% (N=15), according to the ISHLT review of our 148 heart transplants. These acceptable results have been obtained despite our continued commitment to accept higher risk patients for transplantation and to accept older donor hearts. We commit to the transplant community that we will continue to strive for excellence in patient outcomes while making our own modest attempts to "stretch the envelope."

In summary, we are pleased with the UNOS "report card." We continue to feel that the ultimate objective for our cardiac transplant program is to achieve the best possible result for each patient while expanding the science of transplantation. We continue to feel that we have achieved the former while contributing to the latter.

Joseph S. Ladowski, M.D.  
Transplant Program Director



## Heart Transplants: January 1, 1988 - April 30, 1994

Survival Report for St Vincent Hospital & Health Center - Indianapolis IN  
Provider Number 150084 (INSV)Graft Survival

	Era 1: 1/1/88-4/30/92			Era 2: 5/1/92-4/30/94			Overall: 1/1/88-4/30/94						
Time Point	No. of TX	Act. Rate (%)	Exp. Rate (%)	No. of TX	Act. Rate (%)	Exp. Rate (%)	No. of TX	No. <sup>1</sup> w/CFU	No. Failed	Act. Rate (%)	Exp. Rate (%)	Diff. (%)	p- <sup>2</sup> value
1 Month	33	81.8	92.4	31	96.6	92.2	64	61	7	88.7	92.3	-3.6	0.28
1 Year	33	72.7	83.1	31	81.5	83.4	64	43	13	76.2	83.2	-7.0	0.16
Cond. <sup>3</sup> 3 Years	24	91.1	91.1				24	18	2	91.1	91.1	-0.0	1.00
3 Years <sup>3</sup>		66.2	75.7										

Patient Survival

	Era 1: 1/1/88-4/30/92			Era 2: 5/1/92-4/30/94			Overall: 1/1/88-4/30/94						
Time Point	No. of Pts. <sup>4</sup>	Act. Rate (%)	Exp. Rate (%)	No. of Pts. <sup>4</sup>	Act. Rate (%)	Exp. Rate (%)	No. of Pts. <sup>4</sup>	No. <sup>1,5</sup> w/CFU	No. <sup>5</sup> Died	Act. Rate (%)	Exp. Rate (%)	Diff. (%)	p- <sup>2</sup> value
1 Month	33	81.8	92.8	31	96.6	92.6	64	61.0	7.0	88.7	92.7	-4.0	0.22
1 Year	33	72.7	83.8	31	81.5	83.9	64	43.0	13.0	76.2	83.8	-7.6	0.12
Cond. <sup>3</sup> 3 Years	24	91.1	91.4				24	18.0	2.0	91.1	91.4	-0.4	0.95
3 Years <sup>3</sup>		66.2	76.6										

Notes: <sup>1</sup> No. with complete follow-up (CFU) is the total of the number of patients (grafts) whose status was known during the specified time interval.

<sup>2</sup> A p-value followed by an \* indicates that the difference is statistically significant at the 0.05 level.

<sup>3</sup> Conditional 3 year survival rates are the survival rates conditional on survival at 1 year. These are computed based on transplants between 1/1/88 and 4/30/92. Three year survival rates are computed by multiplying the 1 year and the conditional 3 year survival rates.

<sup>4</sup> The numbers of patients in Era 1 and Era 2 do not necessarily add up to the number of patients in the overall period, due to repeat transplants in different eras for some patients.

<sup>5</sup> No. w/CFU or No. Died may be fractional if patients received more than one transplant at the program.

Source: UNOS OPTN/Scientific Registry data.

**Heart Transplants: January 1, 1988 - April 30, 1994**  
**Donor and Recipient Characteristics: Program and National Frequencies**

**St Vincent Hospital & Health Center - Indianapolis IN**  
**Provider Number 150084 (INSV)**

		----- Program -----		--- National ---	
		Number	%	Number	%
<b>Total Transplants and Percentages</b>		<b>64</b>	<b>100.0</b>	<b>12627</b>	<b>100.0</b>
<b>Donor Age</b>	0-5	0	0.0	799	6.3
	6-10	0	0.0	274	2.2
	11-17	11	17.2	2029	16.1
	18-49	50	78.1	8923	70.7
	50-64	3	4.7	589	4.7
	65+	0	0.0	12	0.1
	Not Reported	0	0.0	1	0.0
<b>Donor Gender</b>	Female	30	46.9	3728	29.5
	Male	34	53.1	8899	70.5
<b>Donor Race</b>	White	60	93.8	10036	79.5
	Black	2	3.1	1263	10.0
	Hispanic	2	3.1	1143	9.1
	Asian	0	0.0	90	0.7
	Other	0	0.0	87	0.7
	Not Reported	0	0.0	8	0.1
<b>Recipient Age</b>	<1	0	0.0	549	4.3
	1-10	0	0.0	431	3.4
	11-17	0	0.0	358	2.8
	18-49	19	29.7	4493	35.6
	50-64	44	68.8	6373	50.5
	65+	1	1.6	423	3.3
<b>Recipient Gender</b>	Female	14	21.9	2761	21.9
	Male	50	78.1	9866	78.1
<b>Recipient Race</b>	White	61	95.3	10504	83.2
	Black	2	3.1	1206	9.6
	Hispanic	1	1.6	570	4.5
	Asian	0	0.0	125	1.0
	Other	0	0.0	216	1.7
	Not Reported	0	0.0	6	0.0

		----- Program -----		--- National ---	
		Number	%	Number	%
<b>Previous Heart Transplant</b>	No	64	100.0	12231	96.9
	Yes	0	0.0	344	2.7
	Not Reported	0	0.0	52	0.4
<b>On Ventilator at Transplant</b>	No	64	100.0	11892	94.2
	Yes	0	0.0	663	5.3
	Not Reported	0	0.0	72	0.6
<b>On VAD at Transplant</b>	No	64	100.0	12187	96.5
	Yes	0	0.0	366	2.9
	Not Reported	0	0.0	74	0.6
<b>On IABP at Transplant</b>	No	60	93.8	11754	93.1
	Yes	4	6.3	801	6.3
	Not Reported	0	0.0	72	0.6
<b>Diagnosis at Transplant</b>	Coronary Artery Disease	37	57.8	5222	41.4
	Cardiomyopathy	25	39.1	5779	45.8
	Eisenmenger's Syndrome/Congenital	0	0.0	933	7.4
	Valvular Heart Disease	2	3.1	476	3.8
	Other Diagnosis	0	0.0	183	1.4
	Not Reported	0	0.0	34	0.3
<b>Medical Condition at Transplant</b>	Not Hospitalized	29	45.3	5606	44.4
	Hospitalized	5	7.8	986	7.8
	In ICU	30	46.9	6019	47.7
	Not Reported	0	0.0	16	0.1
<b>Cold Ischemia Time</b>	Up to 2 hrs	11	17.2	3458	27.4
	> 2 - 2.5 hrs	10	15.6	2271	18.0
	> 2.5 - 3 hrs	13	20.3	2408	19.1
	> 3 - 3.5 hrs	13	20.3	1949	15.4
	> 3.5 hrs	17	26.6	2453	19.4
	Not Reported	0	0.0	88	0.7
<b>Year of Transplant</b>	1988	9	14.1	1649	13.1
	1989	6	9.4	1677	13.3
	1990	7	10.9	2071	16.4
	1991	8	12.5	2098	16.6
	1992	10	15.6	2145	17.0
	1993	20	31.3	2266	17.9
	1994	4	6.3	721	5.7

Source: UNOS OPTN/Scientific Registry data.



**Response From: St. Vincent Hospital and Health Care Center  
2001 W. 86th Street, Indianapolis, IN 46260  
Provider Number 150084 (INSV)**

May 19, 1997

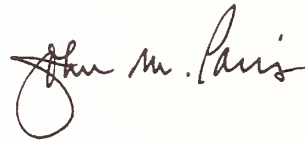
St. Vincent Hospital and Health Care Center Heart Transplant Program was initiated in March, 1987. From January 1, 1988 to April 30, 1994, our program performed 64 heart transplants.

We appreciate the opportunity to review the survival statistics for our program from the UNOS Scientific Registry for the above mentioned period.

We are pleased to note that our overall survival statistics meet the standards established by the national transplant community. These numbers reflect the commitment that St. Vincent Hospital and Health Care Center has to quality care of cardiac transplant patients.

Of note is the fact that our transplant program patient population increased substantially in the second era summarized in the data. To date our program has further doubled to a patient population of 128. With these increased numbers has come a realized improvement in our survival statistics. These changes will be reflected in future UNOS data.

John M. Paris, III, M.D.  
Director, Cardiac Transplant Program

A handwritten signature in black ink, reading "John M. Paris". The signature is written in a cursive style with a large, stylized initial "J" and "P".

## Heart Transplants: January 1, 1988 - April 30, 1994

Survival Report for Via Christi Regional Medical Center - Wichita KS  
Provider Number 170122 (KSFw)Graft Survival

	Era 1: 1/1/88-4/30/92			Era 2: 5/1/92-4/30/94			Overall: 1/1/88-4/30/94						
Time Point	No. of TX	Act. Rate (%)	Exp. Rate (%)	No. of TX	Act. Rate (%)	Exp. Rate (%)	No. of TX	No. <sup>1</sup> w/CFU	No. Failed	Act. Rate (%)	Exp. Rate (%)	Diff. (%)	p- <sup>2</sup> value
1 Month	35	100.0	94.7	17	88.2	94.3	52	52	2	96.2	94.6	1.6	0.62
1 Year	35	100.0	86.0	17	88.2	86.6	52	52	2	96.2	86.2	10.0	0.04*
Cond. <sup>3</sup> 3 Years	35	97.1	90.8				35	35	1	97.1	90.8	6.4	0.19
3 Years <sup>3</sup>		97.1	78.1										

Patient Survival

	Era 1: 1/1/88-4/30/92			Era 2: 5/1/92-4/30/94			Overall: 1/1/88-4/30/94						
Time Point	No. of Pts. <sup>4</sup>	Act. Rate (%)	Exp. Rate (%)	No. of Pts. <sup>4</sup>	Act. Rate (%)	Exp. Rate (%)	No. of Pts. <sup>4</sup>	No. <sup>5</sup> w/CFU	No. <sup>5</sup> Died	Act. Rate (%)	Exp. Rate (%)	Diff. (%)	p- <sup>2</sup> value
1 Month	35	100.0	94.9	17	88.2	94.6	52	52.0	2.0	96.2	94.8	1.3	0.66
1 Year	35	100.0	86.5	17	88.2	87.0	52	52.0	2.0	96.2	86.7	9.5	0.04*
Cond. <sup>3</sup> 3 Years	35	97.1	91.2				35	35.0	1.0	97.1	91.2	6.0	0.21
3 Years <sup>3</sup>		97.1	78.9										

Notes: <sup>1</sup> No. with complete follow-up (CFU) is the total of the number of patients (grafts) whose status was known during the specified time interval.

<sup>2</sup> A p-value followed by an \* indicates that the difference is statistically significant at the 0.05 level.

<sup>3</sup> Conditional 3 year survival rates are the survival rates conditional on survival at 1 year. These are computed based on transplants between 1/1/88 and 4/30/92. Three year survival rates are computed by multiplying the 1 year and the conditional 3 year survival rates.

<sup>4</sup> The numbers of patients in Era 1 and Era 2 do not necessarily add up to the number of patients in the overall period, due to repeat transplants in different eras for some patients.

<sup>5</sup> No. w/CFU or No. Died may be fractional if patients received more than one transplant at the program.

Source: UNOS OPTN/Scientific Registry data.

**Heart Transplants: January 1, 1988 - April 30, 1994**  
**Donor and Recipient Characteristics: Program and National Frequencies**

**Via Christi Regional Medical Center - Wichita KS**  
**Provider Number 170122 (KSFW)**

		----- Program -----		--- National ---	
		Number	%	Number	%
<b>Total Transplants and Percentages</b>		<b>52</b>	<b>100.0</b>	<b>12627</b>	<b>100.0</b>
<b>Donor Age</b>	0-5	0	0.0	799	6.3
	6-10	1	1.9	274	2.2
	11-17	14	26.9	2029	16.1
	18-49	37	71.2	8923	70.7
	50-64	0	0.0	589	4.7
	65+	0	0.0	12	0.1
	Not Reported	0	0.0	1	0.0
<b>Donor Gender</b>	Female	5	9.6	3728	29.5
	Male	47	90.4	8899	70.5
<b>Donor Race</b>	White	48	92.3	10036	79.5
	Black	0	0.0	1263	10.0
	Hispanic	4	7.7	1143	9.1
	Asian	0	0.0	90	0.7
	Other	0	0.0	87	0.7
	Not Reported	0	0.0	8	0.1
<b>Recipient Age</b>	<1	0	0.0	549	4.3
	1-10	1	1.9	431	3.4
	11-17	1	1.9	358	2.8
	18-49	18	34.6	4493	35.6
	50-64	31	59.6	6373	50.5
	65+	1	1.9	423	3.3
<b>Recipient Gender</b>	Female	7	13.5	2761	21.9
	Male	45	86.5	9866	78.1
<b>Recipient Race</b>	White	49	94.2	10504	83.2
	Black	3	5.8	1206	9.6
	Hispanic	0	0.0	570	4.5
	Asian	0	0.0	125	1.0
	Other	0	0.0	216	1.7
	Not Reported	0	0.0	6	0.0

		----- Program -----		--- National ---	
		Number	%	Number	%
<b>Previous Heart Transplant</b>	No	51	98.1	12231	96.9
	Yes	1	1.9	344	2.7
	Not Reported	0	0.0	52	0.4
<b>On Ventilator at Transplant</b>	No	52	100.0	11892	94.2
	Yes	0	0.0	663	5.3
	Not Reported	0	0.0	72	0.6
<b>On VAD at Transplant</b>	No	52	100.0	12187	96.5
	Yes	0	0.0	366	2.9
	Not Reported	0	0.0	74	0.6
<b>On IABP at Transplant</b>	No	52	100.0	11754	93.1
	Yes	0	0.0	801	6.3
	Not Reported	0	0.0	72	0.6
<b>Diagnosis at Transplant</b>	Coronary Artery Disease	32	61.5	5222	41.4
	Cardiomyopathy	20	38.5	5779	45.8
	Eisenmenger's Syndrome/Congenital	0	0.0	933	7.4
	Valvular Heart Disease	0	0.0	476	3.8
	Other Diagnosis	0	0.0	183	1.4
	Not Reported	0	0.0	34	0.3
<b>Medical Condition at Transplant</b>	Not Hospitalized	25	48.1	5606	44.4
	Hospitalized	6	11.5	986	7.8
	In ICU	21	40.4	6019	47.7
	Not Reported	0	0.0	16	0.1
<b>Cold Ischemia Time</b>	Up to 2 hrs	32	61.5	3458	27.4
	> 2 - 2.5 hrs	6	11.5	2271	18.0
	> 2.5 - 3 hrs	7	13.5	2408	19.1
	> 3 - 3.5 hrs	4	7.7	1949	15.4
	> 3.5 hrs	3	5.8	2453	19.4
	Not Reported	0	0.0	88	0.7
<b>Year of Transplant</b>	1988	6	11.5	1649	13.1
	1989	6	11.5	1677	13.3
	1990	8	15.4	2071	16.4
	1991	11	21.2	2098	16.6
	1992	7	13.5	2145	17.0
	1993	12	23.1	2266	17.9
	1994	2	3.8	721	5.7

Source: UNOS OPTN/Scientific Registry data.

**Response From: Via Christi Regional Medical Center- St. Francis Campus**  
**929 N. St. Francis, Wichita, KS 67214**  
**Provider Number 170122 (KSFV)**

May 21, 1997

Via Christi Regional Medical Center, St. Francis Campus is pleased that the UNOS survival statistics for our heart transplant program reflect our success. We believe our excellent statistics are a direct reflection of our multi-disciplinary team approach pre and post transplant, and our commitment to follow our patients, providing quality and continuity in their care.

During the specified period, Jan 1, 1988 through April 30, 1994, 52 people received isolated orthotopic cardiac transplants at Via Christi Regional Medical Center, St. Francis Campus, Wichita, Kansas. In addition two recipients received simultaneous heart/kidney transplants for a total of 54 patients.

Of the 15 deaths, during the defined period of time; 5 were more than 7 years post-transplant, 5 were between 2-7 years post-transplant and 5 were <2 years post transplant.

One patient was re-transplanted, who was originally transplanted at another center. He presented with chronic rejection, requiring re-transplantation and is still alive 9 years following his retransplantation.

We hope to continue to have excellent success with our heart transplant program for years to come, providing a service to patients with end-stage cardiac disease.

Thomas H. Estep, M.D., FACS  
Director of Cardiac Transplant



## Heart Transplants: January 1, 1988 - April 30, 1994

Survival Report for University of Kansas Medical Center - Kansas City KS  
Provider Number 170040 (KSUK)Graft Survival

	Era 1: 1/1/88-4/30/92			Era 2: 5/1/92-4/30/94			Overall: 1/1/88-4/30/94						
Time Point	No. of TX	Act. Rate (%)	Exp. Rate (%)	No. of TX	Act. Rate (%)	Exp. Rate (%)	No. of TX	No. <sup>1</sup> w/CFU	No. Failed	Act. Rate (%)	Exp. Rate (%)	Diff. (%)	p- <sup>2</sup> value
1 Month	38	97.4	93.6	16	100.0	93.0	54	54	1	98.1	93.5	4.7	0.16
1 Year	38	92.1	84.8	16	93.8	84.8	54	54	4	92.6	84.8	7.8	0.11
Cond. <sup>3</sup> 3 Years	35	85.7	91.5				35	35	5	85.7	91.5	-5.7	0.22
3 Years <sup>3</sup>		78.9	77.6										

Patient Survival

	Era 1: 1/1/88-4/30/92			Era 2: 5/1/92-4/30/94			Overall: 1/1/88-4/30/94						
Time Point	No. of Pts. <sup>4</sup>	Act. Rate (%)	Exp. Rate (%)	No. of Pts. <sup>4</sup>	Act. Rate (%)	Exp. Rate (%)	No. of Pts. <sup>4</sup>	No. <sup>1,5</sup> w/CFU	No. <sup>5</sup> Died	Act. Rate (%)	Exp. Rate (%)	Diff. (%)	p- <sup>2</sup> value
1 Month	38	97.4	93.9	16	100.0	93.4	54	54.0	1.0	98.1	93.8	4.4	0.18
1 Year	38	92.1	85.4	16	93.8	85.4	54	54.0	4.0	92.6	85.4	7.2	0.13
Cond. <sup>3</sup> 3 Years	35	85.7	91.8				35	35.0	5.0	85.7	91.8	-6.1	0.18
3 Years <sup>3</sup>		78.9	78.4										

Notes: <sup>1</sup> No. with complete follow-up (CFU) is the total of the number of patients (grafts) whose status was known during the specified time interval.

<sup>2</sup> A p-value followed by an \* indicates that the difference is statistically significant at the 0.05 level.

<sup>3</sup> Conditional 3 year survival rates are the survival rates conditional on survival at 1 year. These are computed based on transplants between 1/1/88 and 4/30/92. Three year survival rates are computed by multiplying the 1 year and the conditional 3 year survival rates.

<sup>4</sup> The numbers of patients in Era 1 and Era 2 do not necessarily add up to the number of patients in the overall period, due to repeat transplants in different eras for some patients.

<sup>5</sup> No. w/CFU or No. Died may be fractional if patients received more than one transplant at the program.

Source: UNOS OPTN/Scientific Registry data.



**Heart Transplants: January 1, 1988 - April 30, 1994**  
**Donor and Recipient Characteristics: Program and National Frequencies**

**University of Kansas Medical Center - Kansas City KS**  
**Provider Number 170040 (KSUK)**

		----- Program -----		--- National ---	
		Number	%	Number	%
<b>Total Transplants and Percentages</b>		<b>54</b>	<b>100.0</b>	<b>12627</b>	<b>100.0</b>
<b>Donor Age</b>	0-5	0	0.0	799	6.3
	6-10	0	0.0	274	2.2
	11-17	13	24.1	2029	16.1
	18-49	40	74.1	8923	70.7
	50-64	1	1.9	589	4.7
	65+	0	0.0	12	0.1
	Not Reported	0	0.0	1	0.0
<b>Donor Gender</b>	Female	16	29.6	3728	29.5
	Male	38	70.4	8899	70.5
<b>Donor Race</b>	White	51	94.4	10036	79.5
	Black	2	3.7	1263	10.0
	Hispanic	1	1.9	1143	9.1
	Asian	0	0.0	90	0.7
	Other	0	0.0	87	0.7
	Not Reported	0	0.0	8	0.1
<b>Recipient Age</b>	<1	0	0.0	549	4.3
	1-10	0	0.0	431	3.4
	11-17	1	1.9	358	2.8
	18-49	16	29.6	4493	35.6
	50-64	37	68.5	6373	50.5
	65+	0	0.0	423	3.3
<b>Recipient Gender</b>	Female	5	9.3	2761	21.9
	Male	49	90.7	9866	78.1
<b>Recipient Race</b>	White	51	94.4	10504	83.2
	Black	1	1.9	1206	9.6
	Hispanic	2	3.7	570	4.5
	Asian	0	0.0	125	1.0
	Other	0	0.0	216	1.7
	Not Reported	0	0.0	6	0.0

		----- Program -----		--- National ---	
		Number	%	Number	%
<b>Previous Heart Transplant</b>	No	54	100.0	12231	96.9
	Yes	0	0.0	344	2.7
	Not Reported	0	0.0	52	0.4
<b>On Ventilator at Transplant</b>	No	54	100.0	11892	94.2
	Yes	0	0.0	663	5.3
	Not Reported	0	0.0	72	0.6
<b>On VAD at Transplant</b>	No	54	100.0	12187	96.5
	Yes	0	0.0	366	2.9
	Not Reported	0	0.0	74	0.6
<b>On IABP at Transplant</b>	No	54	100.0	11754	93.1
	Yes	0	0.0	801	6.3
	Not Reported	0	0.0	72	0.6
<b>Diagnosis at Transplant</b>	Coronary Artery Disease	33	61.1	5222	41.4
	Cardiomyopathy	19	35.2	5779	45.8
	Eisenmenger's Syndrome/Congenital	0	0.0	933	7.4
	Valvular Heart Disease	2	3.7	476	3.8
	Other Diagnosis	0	0.0	183	1.4
	Not Reported	0	0.0	34	0.3
<b>Medical Condition at Transplant</b>	Not Hospitalized	23	42.6	5606	44.4
	Hospitalized	0	0.0	986	7.8
	In ICU	31	57.4	6019	47.7
	Not Reported	0	0.0	16	0.1
<b>Cold Ischemia Time</b>	Up to 2 hrs	10	18.5	3458	27.4
	> 2 - 2.5 hrs	14	25.9	2271	18.0
	> 2.5 - 3 hrs	12	22.2	2408	19.1
	> 3 - 3.5 hrs	15	27.8	1949	15.4
	> 3.5 hrs	3	5.6	2453	19.4
	Not Reported	0	0.0	88	0.7
<b>Year of Transplant</b>	1988	8	14.8	1649	13.1
	1989	5	9.3	1677	13.3
	1990	10	18.5	2071	16.4
	1991	11	20.4	2098	16.6
	1992	11	20.4	2145	17.0
	1993	6	11.1	2266	17.9
	1994	3	5.6	721	5.7

Source: UNOS OPTN/Scientific Registry data.

## Heart Transplants: January 1, 1988 - April 30, 1994

Survival Report for Columbia Audubon Hospital - Louisville KY  
Provider Number 180014 (KYHH)Graft Survival

	Era 1: 1/1/88-4/30/92			Era 2: 5/1/92-4/30/94			Overall: 1/1/88-4/30/94						
Time Point	No. of TX	Act. Rate (%)	Exp. Rate (%)	No. of TX	Act. Rate (%)	Exp. Rate (%)	No. of TX	No. <sup>1</sup> w/CFU	No. Failed	Act. Rate (%)	Exp. Rate (%)	Diff. (%)	p- <sup>2</sup> value
1 Month	4	50.0	90.6				4	4	2	50.0	90.6	-40.6	0.05*
1 Year	4	50.0	78.8				4	4	2	50.0	78.8	-28.8	0.20
Cond. <sup>3</sup> 3 Years	2	100.0	91.7				2	2	0	100.0	91.7	8.3	0.85
3 Years <sup>3</sup>		50.0	72.2										

Patient Survival

	Era 1: 1/1/88-4/30/92			Era 2: 5/1/92-4/30/94			Overall: 1/1/88-4/30/94						
Time Point	No. of Pts. <sup>4</sup>	Act. Rate (%)	Exp. Rate (%)	No. of Pts. <sup>4</sup>	Act. Rate (%)	Exp. Rate (%)	No. of Pts. <sup>4</sup>	No. <sup>1,5</sup> w/CFU	No. <sup>5</sup> Died	Act. Rate (%)	Exp. Rate (%)	Diff. (%)	p- <sup>2</sup> value
1 Month	4	50.0	91.2				4	4.0	2.0	50.0	91.2	-41.2	0.04*
1 Year	4	50.0	79.5				4	4.0	2.0	50.0	79.5	-29.5	0.19
Cond. <sup>3</sup> 3 Years	2	100.0	92.0				2	2.0	0.0	100.0	92.0	8.0	0.85
3 Years <sup>3</sup>		50.0	73.1										

- Notes: <sup>1</sup> No. with complete follow-up (CFU) is the total of the number of patients (grafts) whose status was known during the specified time interval.
- <sup>2</sup> A p-value followed by an \* indicates that the difference is statistically significant at the 0.05 level.
- <sup>3</sup> Conditional 3 year survival rates are the survival rates conditional on survival at 1 year. These are computed based on transplants between 1/1/88 and 4/30/92. Three year survival rates are computed by multiplying the 1 year and the conditional 3 year survival rates.
- <sup>4</sup> The numbers of patients in Era 1 and Era 2 do not necessarily add up to the number of patients in the overall period, due to repeat transplants in different eras for some patients.
- <sup>5</sup> No. w/CFU or No. Died may be fractional if patients received more than one transplant at the program.

Source: UNOS OPTN/Scientific Registry data.

Heart Transplants: January 1, 1988 - April 30, 1994  
Donor and Recipient Characteristics: Program and National Frequencies

Columbia Audubon Hospital - Louisville KY  
Provider Number 180014 (KYHH)

		----- Program -----		--- National ---	
		Number	%	Number	%
Total Transplants and Percentages		4	100.0	12627	100.0
Donor Age	0-5	0	0.0	799	6.3
	6-10	0	0.0	274	2.2
	11-17	0	0.0	2029	16.1
	18-49	4	100.0	8923	70.7
	50-64	0	0.0	589	4.7
	65+	0	0.0	12	0.1
	Not Reported	0	0.0	1	0.0
Donor Gender	Female	1	25.0	3728	29.5
	Male	3	75.0	8899	70.5
Donor Race	White	4	100.0	10036	79.5
	Black	0	0.0	1263	10.0
	Hispanic	0	0.0	1143	9.1
	Asian	0	0.0	90	0.7
	Other	0	0.0	87	0.7
	Not Reported	0	0.0	8	0.1
Recipient Age	<1	0	0.0	549	4.3
	1-10	0	0.0	431	3.4
	11-17	0	0.0	358	2.8
	18-49	2	50.0	4493	35.6
	50-64	2	50.0	6373	50.5
	65+	0	0.0	423	3.3
Recipient Gender	Female	1	25.0	2761	21.9
	Male	3	75.0	9866	78.1
Recipient Race	White	4	100.0	10504	83.2
	Black	0	0.0	1206	9.6
	Hispanic	0	0.0	570	4.5
	Asian	0	0.0	125	1.0
	Other	0	0.0	216	1.7
	Not Reported	0	0.0	6	0.0

		----- Program -----		--- National ---	
		Number	%	Number	%
<b>Previous Heart Transplant</b>	No	3	75.0	12231	96.9
	Yes	1	25.0	344	2.7
	Not Reported	0	0.0	52	0.4
<b>On Ventilator at Transplant</b>	No	4	100.0	11892	94.2
	Yes	0	0.0	663	5.3
	Not Reported	0	0.0	72	0.6
<b>On VAD at Transplant</b>	No	4	100.0	12187	96.5
	Yes	0	0.0	366	2.9
	Not Reported	0	0.0	74	0.6
<b>On IABP at Transplant</b>	No	4	100.0	11754	93.1
	Yes	0	0.0	801	6.3
	Not Reported	0	0.0	72	0.6
<b>Diagnosis at Transplant</b>	Coronary Artery Disease	2	50.0	5222	41.4
	Cardiomyopathy	1	25.0	5779	45.8
	Eisenmenger's Syndrome/Congenital	0	0.0	933	7.4
	Valvular Heart Disease	1	25.0	476	3.8
	Other Diagnosis	0	0.0	183	1.4
	Not Reported	0	0.0	34	0.3
<b>Medical Condition at Transplant</b>	Not Hospitalized	2	50.0	5606	44.4
	Hospitalized	0	0.0	986	7.8
	In ICU	2	50.0	6019	47.7
	Not Reported	0	0.0	16	0.1
<b>Cold Ischemia Time</b>	Up to 2 hrs	0	0.0	3458	27.4
	> 2 - 2.5 hrs	0	0.0	2271	18.0
	> 2.5 - 3 hrs	3	75.0	2408	19.1
	> 3 - 3.5 hrs	0	0.0	1949	15.4
	> 3.5 hrs	1	25.0	2453	19.4
	Not Reported	0	0.0	88	0.7
<b>Year of Transplant</b>	1988	4	100.0	1649	13.1
	1989	0	0.0	1677	13.3
	1990	0	0.0	2071	16.4
	1991	0	0.0	2098	16.6
	1992	0	0.0	2145	17.0
	1993	0	0.0	2266	17.9
	1994	0	0.0	721	5.7

Source: UNOS OPTN/Scientific Registry data.

**Response From: Columbia Audubon Hospital  
One Audubon Plaza Drive, Louisville, KY 40217  
Provider Number 180014 (KYHH)**

June 4, 1997

Audubon Regional Medical Center's heart transplant program began in September 1984 and performed 31 heart transplants until 1997.

At the time of this report (1997), 10 heart transplant recipients are alive and well from 9 to 13.5 years after transplant for an overall survival rate of 32% at an average of 11.3 years post-transplant.

For the period including January 1, 1988 to April 30, 1994, 4 heart transplants were performed. Three patients died after transplant: at 5 days acute rejection; at 10 days (mesenteric thrombosis) and at 4.5 years (chronic rejection) for an overall survival rate of 25% for this period alone.

Roland Girardet, M.D.

A handwritten signature in cursive script, reading "Roland Girardet".



## Heart Transplants: January 1, 1988 - April 30, 1994

Survival Report for Jewish Hospital - Louisville KY  
Provider Number 180040 (KYJH)Graft Survival

	Era 1: 1/1/88-4/30/92			Era 2: 5/1/92-4/30/94			Overall: 1/1/88-4/30/94						
Time Point	No. of TX	Act. Rate (%)	Exp. Rate (%)	No. of TX	Act. Rate (%)	Exp. Rate (%)	No. of TX	No. <sup>1</sup> w/CFU	No. Failed	Act. Rate (%)	Exp. Rate (%)	Diff. (%)	p- <sup>2</sup> value
1 Month	61	85.2	92.4	37	81.1	92.1	98	98	16	83.7	92.3	-8.6	<0.01*
1 Year	61	77.0	83.7	37	81.1	83.8	98	98	21	78.6	83.7	-5.2	0.15
Cond. <sup>3</sup> 3 Years	47	95.7	90.7				47	47	2	95.7	90.7	5.1	0.23
3 Years <sup>3</sup>		73.8	75.9										

Patient Survival

	Era 1: 1/1/88-4/30/92			Era 2: 5/1/92-4/30/94			Overall: 1/1/88-4/30/94						
Time Point	No. of Pts. <sup>4</sup>	Act. Rate (%)	Exp. Rate (%)	No. of Pts. <sup>4</sup>	Act. Rate (%)	Exp. Rate (%)	No. of Pts. <sup>4</sup>	No. <sup>1,5</sup> w/CFU	No. <sup>5</sup> Died	Act. Rate (%)	Exp. Rate (%)	Diff. (%)	p- <sup>2</sup> value
1 Month	60	85.0	93.0	36	83.3	93.3	96	96.0	15.0	84.4	93.1	-8.8	<0.01*
1 Year	60	78.3	84.8	36	83.3	85.3	96	96.0	19.0	80.2	85.0	-4.8	0.18
Cond. <sup>3</sup> 3 Years	47	95.7	91.3				47	47.0	2.0	95.7	91.3	4.5	0.27
3 Years <sup>3</sup>		75.0	77.4										

Notes: <sup>1</sup> No. with complete follow-up (CFU) is the total of the number of patients (grafts) whose status was known during the specified time interval.

<sup>2</sup> A p-value followed by an \* indicates that the difference is statistically significant at the 0.05 level.

<sup>3</sup> Conditional 3 year survival rates are the survival rates conditional on survival at 1 year. These are computed based on transplants between 1/1/88 and 4/30/92. Three year survival rates are computed by multiplying the 1 year and the conditional 3 year survival rates.

<sup>4</sup> The numbers of patients in Era 1 and Era 2 do not necessarily add up to the number of patients in the overall period, due to repeat transplants in different eras for some patients.

<sup>5</sup> No. w/CFU or No. Died may be fractional if patients received more than one transplant at the program.

Source: UNOS OPTN/Scientific Registry data.

**Heart Transplants: January 1, 1988 - April 30, 1994**  
**Donor and Recipient Characteristics: Program and National Frequencies**

**Jewish Hospital - Louisville KY**  
**Provider Number 180040 (KYJH)**

		----- Program -----		--- National ---	
		Number	%	Number	%
<b>Total Transplants and Percentages</b>		<b>98</b>	<b>100.0</b>	<b>12627</b>	<b>100.0</b>
<b>Donor Age</b>	0-5	0	0.0	799	6.3
	6-10	0	0.0	274	2.2
	11-17	14	14.3	2029	16.1
	18-49	79	80.6	8923	70.7
	50-64	5	5.1	589	4.7
	65+	0	0.0	12	0.1
	Not Reported	0	0.0	1	0.0
<b>Donor Gender</b>	Female	33	33.7	3728	29.5
	Male	65	66.3	8899	70.5
<b>Donor Race</b>	White	94	95.9	10036	79.5
	Black	4	4.1	1263	10.0
	Hispanic	0	0.0	1143	9.1
	Asian	0	0.0	90	0.7
	Other	0	0.0	87	0.7
	Not Reported	0	0.0	8	0.1
<b>Recipient Age</b>	<1	0	0.0	549	4.3
	1-10	0	0.0	431	3.4
	11-17	0	0.0	358	2.8
	18-49	48	49.0	4493	35.6
	50-64	50	51.0	6373	50.5
	65+	0	0.0	423	3.3
<b>Recipient Gender</b>	Female	23	23.5	2761	21.9
	Male	75	76.5	9866	78.1
<b>Recipient Race</b>	White	93	94.9	10504	83.2
	Black	5	5.1	1206	9.6
	Hispanic	0	0.0	570	4.5
	Asian	0	0.0	125	1.0
	Other	0	0.0	216	1.7
	Not Reported	0	0.0	6	0.0

		----- Program -----		--- National ---	
		Number	%	Number	%
<b>Previous Heart Transplant</b>	No	94	95.9	12231	96.9
	Yes	3	3.1	344	2.7
	Not Reported	1	1.0	52	0.4
<b>On Ventilator at Transplant</b>	No	89	90.8	11892	94.2
	Yes	6	6.1	663	5.3
	Not Reported	3	3.1	72	0.6
<b>On VAD at Transplant</b>	No	93	94.9	12187	96.5
	Yes	2	2.0	366	2.9
	Not Reported	3	3.1	74	0.6
<b>On IABP at Transplant</b>	No	93	94.9	11754	93.1
	Yes	2	2.0	801	6.3
	Not Reported	3	3.1	72	0.6
<b>Diagnosis at Transplant</b>	Coronary Artery Disease	30	30.6	5222	41.4
	Cardiomyopathy	42	42.9	5779	45.8
	Eisenmenger's Syndrome/Congenital	2	2.0	933	7.4
	Valvular Heart Disease	4	4.1	476	3.8
	Other Diagnosis	19	19.4	183	1.4
	Not Reported	1	1.0	34	0.3
<b>Medical Condition at Transplant</b>	Not Hospitalized	54	55.1	5606	44.4
	Hospitalized	12	12.2	986	7.8
	In ICU	30	30.6	6019	47.7
	Not Reported	2	2.0	16	0.1
<b>Cold Ischemia Time</b>	Up to 2 hrs	42	42.9	3458	27.4
	> 2 - 2.5 hrs	25	25.5	2271	18.0
	> 2.5 - 3 hrs	15	15.3	2408	19.1
	> 3 - 3.5 hrs	7	7.1	1949	15.4
	> 3.5 hrs	8	8.2	2453	19.4
	Not Reported	1	1.0	88	0.7
<b>Year of Transplant</b>	1988	9	9.2	1649	13.1
	1989	13	13.3	1677	13.3
	1990	20	20.4	2071	16.4
	1991	17	17.3	2098	16.6
	1992	15	15.3	2145	17.0
	1993	17	17.3	2266	17.9
	1994	7	7.1	721	5.7

Source: UNOS OPTN/Scientific Registry data.

## Heart Transplants: January 1, 1988 - April 30, 1994

Survival Report for Kosair Children's Hospital - Louisville KY  
Provider Number 180088 (KYKC)Graft Survival

	Era 1: 1/1/88-4/30/92			Era 2: 5/1/92-4/30/94			Overall: 1/1/88-4/30/94						
Time Point	No. of TX	Act. Rate (%)	Exp. Rate (%)	No. of TX	Act. Rate (%)	Exp. Rate (%)	No. of TX	No. <sup>1</sup> w/CFU	No. Failed	Act. Rate (%)	Exp. Rate (%)	Diff. (%)	p- <sup>2</sup> value
1 Month	15	60.0	79.4	7	57.1	84.1	22	22	9	59.1	80.9	-21.8	<0.01*
1 Year	15	40.0	66.5	7	28.6	69.9	22	22	14	36.4	67.5	-31.2	<0.01*
Cond. <sup>3</sup> 3 Years	6	66.7	86.2				6	6	2	66.7	86.2	-19.5	0.16
3 Years <sup>3</sup>		26.7	57.3										

Patient Survival

	Era 1: 1/1/88-4/30/92			Era 2: 5/1/92-4/30/94			Overall: 1/1/88-4/30/94						
Time Point	No. of Pts. <sup>4</sup>	Act. Rate (%)	Exp. Rate (%)	No. of Pts. <sup>4</sup>	Act. Rate (%)	Exp. Rate (%)	No. of Pts. <sup>4</sup>	No. <sup>1,5</sup> w/CFU	No. <sup>5</sup> Died	Act. Rate (%)	Exp. Rate (%)	Diff. (%)	p- <sup>2</sup> value
1 Month	15	58.6	79.5	6	66.7	86.1	21	20.5	8.0	61.0	81.4	-20.4	0.01*
1 Year	15	37.9	67.2	6	33.3	73.1	21	20.5	13.0	36.6	68.9	-32.3	<0.01*
Cond. <sup>3</sup> 3 Years	6	66.7	86.9				6	6.0	2.0	66.7	86.9	-20.2	0.14
3 Years <sup>3</sup>		25.3	58.4										

Notes: <sup>1</sup> No. with complete follow-up (CFU) is the total of the number of patients (grafts) whose status was known during the specified time interval.

<sup>2</sup> A p-value followed by an \* indicates that the difference is statistically significant at the 0.05 level.

<sup>3</sup> Conditional 3 year survival rates are the survival rates conditional on survival at 1 year. These are computed based on transplants between 1/1/88 and 4/30/92. Three year survival rates are computed by multiplying the 1 year and the conditional 3 year survival rates.

<sup>4</sup> The numbers of patients in Era 1 and Era 2 do not necessarily add up to the number of patients in the overall period, due to repeat transplants in different eras for some patients.

<sup>5</sup> No. w/CFU or No. Died may be fractional if patients received more than one transplant at the program.

Source: UNOS OPTN/Scientific Registry data.

**Heart Transplants: January 1, 1988 - April 30, 1994**  
**Donor and Recipient Characteristics: Program and National Frequencies**

**Kosair Children's Hospital - Louisville KY**  
**Provider Number 180088 (KYKC)**

		----- Program -----		--- National ---	
		Number	%	Number	%
<b>Total Transplants and Percentages</b>		<b>22</b>	<b>100.0</b>	<b>12627</b>	<b>100.0</b>
<b>Donor Age</b>	0-5	20	90.9	799	6.3
	6-10	0	0.0	274	2.2
	11-17	0	0.0	2029	16.1
	18-49	2	9.1	8923	70.7
	50-64	0	0.0	589	4.7
	65+	0	0.0	12	0.1
	Not Reported	0	0.0	1	0.0
<b>Donor Gender</b>	Female	9	40.9	3728	29.5
	Male	13	59.1	8899	70.5
<b>Donor Race</b>	White	13	59.1	10036	79.5
	Black	4	18.2	1263	10.0
	Hispanic	5	22.7	1143	9.1
	Asian	0	0.0	90	0.7
	Other	0	0.0	87	0.7
	Not Reported	0	0.0	8	0.1
<b>Recipient Age</b>	<1	15	68.2	549	4.3
	1-10	5	22.7	431	3.4
	11-17	2	9.1	358	2.8
	18-49	0	0.0	4493	35.6
	50-64	0	0.0	6373	50.5
	65+	0	0.0	423	3.3
<b>Recipient Gender</b>	Female	8	36.4	2761	21.9
	Male	14	63.6	9866	78.1
<b>Recipient Race</b>	White	18	81.8	10504	83.2
	Black	1	4.5	1206	9.6
	Hispanic	1	4.5	570	4.5
	Asian	0	0.0	125	1.0
	Other	2	9.1	216	1.7
	Not Reported	0	0.0	6	0.0

		----- Program -----		--- National ---	
		Number	%	Number	%
<b>Previous Heart Transplant</b>	No	21	95.5	12231	96.9
	Yes	1	4.5	344	2.7
	Not Reported	0	0.0	52	0.4
<b>On Ventilator at Transplant</b>	No	11	50.0	11892	94.2
	Yes	11	50.0	663	5.3
	Not Reported	0	0.0	72	0.6
<b>On VAD at Transplant</b>	No	22	100.0	12187	96.5
	Yes	0	0.0	366	2.9
	Not Reported	0	0.0	74	0.6
<b>On IABP at Transplant</b>	No	22	100.0	11754	93.1
	Yes	0	0.0	801	6.3
	Not Reported	0	0.0	72	0.6
<b>Diagnosis at Transplant</b>	Coronary Artery Disease	0	0.0	5222	41.4
	Cardiomyopathy	5	22.7	5779	45.8
	Eisenmenger's Syndrome/Congenital	14	63.6	933	7.4
	Valvular Heart Disease	0	0.0	476	3.8
	Other Diagnosis	3	13.6	183	1.4
	Not Reported	0	0.0	34	0.3
<b>Medical Condition at Transplant</b>	Not Hospitalized	5	22.7	5606	44.4
	Hospitalized	0	0.0	986	7.8
	In ICU	17	77.3	6019	47.7
	Not Reported	0	0.0	16	0.1
<b>Cold Ischemia Time</b>	Up to 2 hrs	6	27.3	3458	27.4
	> 2 - 2.5 hrs	3	13.6	2271	18.0
	> 2.5 - 3 hrs	2	9.1	2408	19.1
	> 3 - 3.5 hrs	5	22.7	1949	15.4
	> 3.5 hrs	6	27.3	2453	19.4
	Not Reported	0	0.0	88	0.7
<b>Year of Transplant</b>	1988	5	22.7	1649	13.1
	1989	3	13.6	1677	13.3
	1990	1	4.5	2071	16.4
	1991	5	22.7	2098	16.6
	1992	1	4.5	2145	17.0
	1993	7	31.8	2266	17.9
	1994	0	0.0	721	5.7

Source: UNOS OPTN/Scientific Registry data.



**Response From: Kosair Children's Hospital  
231 East Chestnut Street, Louisville, KY 40232  
Provider Number 180088 (KYKC)**

May 8, 1997

Kosair Children's Hospital's heart transplant program has been notified by the United Network for Organ Sharing (UNOS) of its overall transplant survival rate for the time period January 1, 1988 through April 30, 1994. We would like to emphasize that we have analyzed our own data and determined that changes could be made in the heart transplant program to improve patient outcomes. The heart transplant program at Kosair Children's Hospital was completely restructured in 1995. A new medical director of the heart transplant program was named and a transplant cardiologist identified. All aspects of patient care including pretransplant management and evaluation, intraoperative management and postoperative care have been restructured and now conform to strict UNOS guidelines. Moreover, an additional pediatric cardiac surgeon experienced in heart transplantation has been recruited and added to the heart transplant team. We are optimistic that the restructuring of our transplant program will result in an immediate and sustained benefit to our patients. Indeed, we have recently performed two heart transplantations and both children have done well and have returned to normal life.

Robert D. Dowling, M.D.  
Director, Pediatric Cardiac Transplant Program



## Heart Transplants: January 1, 1988 - April 30, 1994

Survival Report for University of Kentucky Medical Center - Lexington KY  
Provider Number 180067 (KYUK)Graft Survival

	Era 1: 1/1/88-4/30/92			Era 2: 5/1/92-4/30/94			Overall: 1/1/88-4/30/94						
Time Point	No. of TX	Act. Rate (%)	Exp. Rate (%)	No. of TX	Act. Rate (%)	Exp. Rate (%)	No. of TX	No. <sup>1</sup> w/CFU	No. Failed	Act. Rate (%)	Exp. Rate (%)	Diff. (%)	p- <sup>2</sup> value
1 Month	20	90.0	94.1	37	89.2	93.5	57	57	6	89.5	93.7	-4.2	0.19
1 Year	20	75.0	85.5	37	78.4	84.8	57	57	13	77.2	85.0	-7.9	0.09
Cond. <sup>3</sup> 3 Years	15	80.0	91.6				15	15	3	80.0	91.6	-11.6	0.10
3 Years <sup>3</sup>		60.0	78.3										

Patient Survival

	Era 1: 1/1/88-4/30/92			Era 2: 5/1/92-4/30/94			Overall: 1/1/88-4/30/94						
Time Point	No. of Pts. <sup>4</sup>	Act. Rate (%)	Exp. Rate (%)	No. of Pts. <sup>4</sup>	Act. Rate (%)	Exp. Rate (%)	No. of Pts. <sup>4</sup>	No. <sup>1,5</sup> w/CFU	No. <sup>5</sup> Died	Act. Rate (%)	Exp. Rate (%)	Diff. (%)	p- <sup>2</sup> value
1 Month	20	90.0	94.3	37	89.2	93.9	57	57.0	6.0	89.5	94.0	-4.6	0.14
1 Year	20	75.0	85.9	37	78.4	85.3	57	57.0	13.0	77.2	85.5	-8.3	0.07
Cond. <sup>3</sup> 3 Years	15	80.0	91.9				15	15.0	3.0	80.0	91.9	-11.9	0.09
3 Years <sup>3</sup>		60.0	79.0										

Notes: <sup>1</sup> No. with complete follow-up (CFU) is the total of the number of patients (grafts) whose status was known during the specified time interval.

<sup>2</sup> A p-value followed by an \* indicates that the difference is statistically significant at the 0.05 level.

<sup>3</sup> Conditional 3 year survival rates are the survival rates conditional on survival at 1 year. These are computed based on transplants between 1/1/88 and 4/30/92. Three year survival rates are computed by multiplying the 1 year and the conditional 3 year survival rates.

<sup>4</sup> The numbers of patients in Era 1 and Era 2 do not necessarily add up to the number of patients in the overall period, due to repeat transplants in different eras for some patients.

<sup>5</sup> No. w/CFU or No. Died may be fractional if patients received more than one transplant at the program.

Source: UNOS OPTN/Scientific Registry data.

**Heart Transplants: January 1, 1988 - April 30, 1994**  
**Donor and Recipient Characteristics: Program and National Frequencies**

**University of Kentucky Medical Center - Lexington KY**  
**Provider Number 180067 (KYUK)**

		----- Program -----		--- National ---	
		Number	%	Number	%
<b>Total Transplants and Percentages</b>		<b>57</b>	<b>100.0</b>	<b>12627</b>	<b>100.0</b>
<b>Donor Age</b>	0-5	0	0.0	799	6.3
	6-10	0	0.0	274	2.2
	11-17	13	22.8	2029	16.1
	18-49	34	59.6	8923	70.7
	50-64	10	17.5	589	4.7
	65+	0	0.0	12	0.1
	Not Reported	0	0.0	1	0.0
<b>Donor Gender</b>	Female	23	40.4	3728	29.5
	Male	34	59.6	8899	70.5
<b>Donor Race</b>	White	52	91.2	10036	79.5
	Black	5	8.8	1263	10.0
	Hispanic	0	0.0	1143	9.1
	Asian	0	0.0	90	0.7
	Other	0	0.0	87	0.7
	Not Reported	0	0.0	8	0.1
<b>Recipient Age</b>	<1	0	0.0	549	4.3
	1-10	0	0.0	431	3.4
	11-17	0	0.0	358	2.8
	18-49	23	40.4	4493	35.6
	50-64	33	57.9	6373	50.5
	65+	1	1.8	423	3.3
<b>Recipient Gender</b>	Female	14	24.6	2761	21.9
	Male	43	75.4	9866	78.1
<b>Recipient Race</b>	White	52	91.2	10504	83.2
	Black	3	5.3	1206	9.6
	Hispanic	1	1.8	570	4.5
	Asian	0	0.0	125	1.0
	Other	1	1.8	216	1.7
	Not Reported	0	0.0	6	0.0

		----- Program -----		--- National ---	
		Number	%	Number	%
Previous Heart Transplant	No	56	98.2	12231	96.9
	Yes	0	0.0	344	2.7
	Not Reported	1	1.8	52	0.4
On Ventilator at Transplant	No	57	100.0	11892	94.2
	Yes	0	0.0	663	5.3
	Not Reported	0	0.0	72	0.6
On VAD at Transplant	No	57	100.0	12187	96.5
	Yes	0	0.0	366	2.9
	Not Reported	0	0.0	74	0.6
On IABP at Transplant	No	57	100.0	11754	93.1
	Yes	0	0.0	801	6.3
	Not Reported	0	0.0	72	0.6
Diagnosis at Transplant	Coronary Artery Disease	23	40.4	5222	41.4
	Cardiomyopathy	27	47.4	5779	45.8
	Eisenmenger's Syndrome/Congenital	1	1.8	933	7.4
	Valvular Heart Disease	6	10.5	476	3.8
	Other Diagnosis	0	0.0	183	1.4
	Not Reported	0	0.0	34	0.3
Medical Condition at Transplant	Not Hospitalized	36	63.2	5606	44.4
	Hospitalized	12	21.1	986	7.8
	In ICU	9	15.8	6019	47.7
	Not Reported	0	0.0	16	0.1
Cold Ischemia Time	Up to 2 hrs	23	40.4	3458	27.4
	> 2 - 2.5 hrs	7	12.3	2271	18.0
	> 2.5 - 3 hrs	20	35.1	2408	19.1
	> 3 - 3.5 hrs	7	12.3	1949	15.4
	> 3.5 hrs	0	0.0	2453	19.4
	Not Reported	0	0.0	88	0.7
Year of Transplant	1988	0	0.0	1649	13.1
	1989	0	0.0	1677	13.3
	1990	0	0.0	2071	16.4
	1991	17	29.8	2098	16.6
	1992	11	19.3	2145	17.0
	1993	21	36.8	2266	17.9
	1994	8	14.0	721	5.7

Source: UNOS OPTN/Scientific Registry data.

## Heart Transplants: January 1, 1988 - April 30, 1994

Survival Report for Ochsner Foundation Hospital - New Orleans LA  
Provider Number 190036 (LAOF)Graft Survival

	Era 1: 1/1/88-4/30/92			Era 2: 5/1/92-4/30/94			Overall: 1/1/88-4/30/94						
Time Point	No. of TX	Act. Rate (%)	Exp. Rate (%)	No. of TX	Act. Rate (%)	Exp. Rate (%)	No. of TX	No. <sup>1</sup> w/CFU	No. Failed	Act. Rate (%)	Exp. Rate (%)	Diff. (%)	p- <sup>2</sup> value
1 Month	117	94.9	92.4	98	91.8	91.6	215	215	14	93.5	92.1	1.4	0.42
1 Year	117	84.6	82.6	98	82.6	81.6	215	214	35	83.7	82.1	1.6	0.53
Cond. <sup>3</sup> 3 Years	99	94.9	90.6				99	97	5	94.9	90.6	4.3	0.14
3 Years <sup>3</sup>		80.3	74.8										

Patient Survival

	Era 1: 1/1/88-4/30/92			Era 2: 5/1/92-4/30/94			Overall: 1/1/88-4/30/94						
Time Point	No. of Pts. <sup>4</sup>	Act. Rate (%)	Exp. Rate (%)	No. of Pts. <sup>4</sup>	Act. Rate (%)	Exp. Rate (%)	No. of Pts. <sup>4</sup>	No. <sup>1,5</sup> w/CFU	No. <sup>5</sup> Died	Act. Rate (%)	Exp. Rate (%)	Diff. (%)	p- <sup>2</sup> value
1 Month	116	95.7	92.9	97	92.8	92.2	213	213.0	12.0	94.4	92.6	1.8	0.30
1 Year	116	85.3	83.4	97	85.5	82.4	213	210.0	31.0	85.4	82.9	2.5	0.32
Cond. <sup>3</sup> 3 Years	99	94.9	91.0				99	97.0	5.0	94.9	91.0	3.9	0.17
3 Years <sup>3</sup>		81.0	75.9										

Notes: <sup>1</sup> No. with complete follow-up (CFU) is the total of the number of patients (grafts) whose status was known during the specified time interval.

<sup>2</sup> A p-value followed by an \* indicates that the difference is statistically significant at the 0.05 level.

<sup>3</sup> Conditional 3 year survival rates are the survival rates conditional on survival at 1 year. These are computed based on transplants between 1/1/88 and 4/30/92. Three year survival rates are computed by multiplying the 1 year and the conditional 3 year survival rates.

<sup>4</sup> The numbers of patients in Era 1 and Era 2 do not necessarily add up to the number of patients in the overall period, due to repeat transplants in different eras for some patients.

<sup>5</sup> No. w/CFU or No. Died may be fractional if patients received more than one transplant at the program.

Source: UNOS OPTN/Scientific Registry data.

**Heart Transplants: January 1, 1988 - April 30, 1994**  
**Donor and Recipient Characteristics: Program and National Frequencies**

**Ochsner Foundation Hospital - New Orleans LA**  
**Provider Number 190036 (LAOF)**

		----- Program -----		--- National ---	
		Number	%	Number	%
<b>Total Transplants and Percentages</b>		<b>215</b>	<b>100.0</b>	<b>12627</b>	<b>100.0</b>
<b>Donor Age</b>	0-5	2	0.9	799	6.3
	6-10	8	3.7	274	2.2
	11-17	52	24.2	2029	16.1
	18-49	145	67.4	8923	70.7
	50-64	7	3.3	589	4.7
	65+	0	0.0	12	0.1
	Not Reported	1	0.5	1	0.0
<b>Donor Gender</b>	Female	77	35.8	3728	29.5
	Male	138	64.2	8899	70.5
<b>Donor Race</b>	White	176	81.9	10036	79.5
	Black	32	14.9	1263	10.0
	Hispanic	6	2.8	1143	9.1
	Asian	1	0.5	90	0.7
	Other	0	0.0	87	0.7
	Not Reported	0	0.0	8	0.1
<b>Recipient Age</b>	<1	1	0.5	549	4.3
	1-10	2	0.9	431	3.4
	11-17	6	2.8	358	2.8
	18-49	77	35.8	4493	35.6
	50-64	113	52.6	6373	50.5
	65+	16	7.4	423	3.3
<b>Recipient Gender</b>	Female	46	21.4	2761	21.9
	Male	169	78.6	9866	78.1
<b>Recipient Race</b>	White	171	79.5	10504	83.2
	Black	43	20.0	1206	9.6
	Hispanic	1	0.5	570	4.5
	Asian	0	0.0	125	1.0
	Other	0	0.0	216	1.7
	Not Reported	0	0.0	6	0.0



		----- Program -----		--- National ---	
		Number	%	Number	%
<b>Previous Heart Transplant</b>	No	208	96.7	12231	96.9
	Yes	2	0.9	344	2.7
	Not Reported	5	2.3	52	0.4
<b>On Ventilator at Transplant</b>	No	203	94.4	11892	94.2
	Yes	8	3.7	663	5.3
	Not Reported	4	1.9	72	0.6
<b>On VAD at Transplant</b>	No	207	96.3	12187	96.5
	Yes	4	1.9	366	2.9
	Not Reported	4	1.9	74	0.6
<b>On IABP at Transplant</b>	No	191	88.8	11754	93.1
	Yes	20	9.3	801	6.3
	Not Reported	4	1.9	72	0.6
<b>Diagnosis at Transplant</b>	Coronary Artery Disease	149	69.3	5222	41.4
	Cardiomyopathy	55	25.6	5779	45.8
	Eisenmenger's Syndrome/Congenital	5	2.3	933	7.4
	Valvular Heart Disease	2	0.9	476	3.8
	Other Diagnosis	4	1.9	183	1.4
	Not Reported	0	0.0	34	0.3
<b>Medical Condition at Transplant</b>	Not Hospitalized	114	53.0	5606	44.4
	Hospitalized	19	8.8	986	7.8
	In ICU	82	38.1	6019	47.7
	Not Reported	0	0.0	16	0.1
<b>Cold Ischemia Time</b>	Up to 2 hrs	32	14.9	3458	27.4
	> 2 - 2.5 hrs	39	18.1	2271	18.0
	> 2.5 - 3 hrs	53	24.7	2408	19.1
	> 3 - 3.5 hrs	46	21.4	1949	15.4
	> 3.5 hrs	45	20.9	2453	19.4
	Not Reported	0	0.0	88	0.7
<b>Year of Transplant</b>	1988	13	6.0	1649	13.1
	1989	18	8.4	1677	13.3
	1990	27	12.6	2071	16.4
	1991	41	19.1	2098	16.6
	1992	50	23.3	2145	17.0
	1993	49	22.8	2266	17.9
	1994	17	7.9	721	5.7

Source: UNOS OPTN/Scientific Registry data.

## Heart Transplants: January 1, 1988 - April 30, 1994

Survival Report for Louisiana State University Medical Center - Shreveport LA  
Provider Number 190098 (LASU)Graft Survival

	Era 1: 1/1/88-4/30/92			Era 2: 5/1/92-4/30/94			Overall: 1/1/88-4/30/94						
Time Point	No. of TX	Act. Rate (%)	Exp. Rate (%)	No. of TX	Act. Rate (%)	Exp. Rate (%)	No. of TX	No. <sup>1</sup> w/CFU	No. Failed	Act. Rate (%)	Exp. Rate (%)	Diff. (%)	p- <sup>2</sup> value
1 Month				1	100.0	94.1	1	1	0	100.0	94.1	5.9	1.00
1 Year				1	0.0	79.1	1	1	1	0.0	79.1	-79.1	0.21
Cond. <sup>3</sup> 3 Years													
3 Years <sup>3</sup>													

Patient Survival

	Era 1: 1/1/88-4/30/92			Era 2: 5/1/92-4/30/94			Overall: 1/1/88-4/30/94						
Time Point	No. of Pts. <sup>4</sup>	Act. Rate (%)	Exp. Rate (%)	No. of Pts. <sup>4</sup>	Act. Rate (%)	Exp. Rate (%)	No. of Pts. <sup>4</sup>	No. <sup>1,5</sup> w/CFU	No. <sup>5</sup> Died	Act. Rate (%)	Exp. Rate (%)	Diff. (%)	p- <sup>2</sup> value
1 Month				1	100.0	93.6	1	1.0	0.0	100.0	93.6	6.4	1.00
1 Year				1	0.0	79.5	1	1.0	1.0	0.0	79.5	-79.5	0.20
Cond. <sup>3</sup> 3 Years													
3 Years <sup>3</sup>													

Notes: <sup>1</sup> No. with complete follow-up (CFU) is the total of the number of patients (grafts) whose status was known during the specified time interval.

<sup>2</sup> A p-value followed by an \* indicates that the difference is statistically significant at the 0.05 level.

<sup>3</sup> Conditional 3 year survival rates are the survival rates conditional on survival at 1 year. These are computed based on transplants between 1/1/88 and 4/30/92. Three year survival rates are computed by multiplying the 1 year and the conditional 3 year survival rates.

<sup>4</sup> The numbers of patients in Era 1 and Era 2 do not necessarily add up to the number of patients in the overall period, due to repeat transplants in different eras for some patients.

<sup>5</sup> No. w/CFU or No. Died may be fractional if patients received more than one transplant at the program.

Source: UNOS OPTN/Scientific Registry data.

**Heart Transplants: January 1, 1988 - April 30, 1994**  
**Donor and Recipient Characteristics: Program and National Frequencies**

**Louisiana State University Medical Center - Shreveport LA**  
**Provider Number 190098 (LASU)**

		----- Program -----		--- National ---	
		Number	%	Number	%
<b>Total Transplants and Percentages</b>		<b>1</b>	<b>100.0</b>	<b>12627</b>	<b>100.0</b>
<b>Donor Age</b>	0-5	1	100.0	799	6.3
	6-10	0	0.0	274	2.2
	11-17	0	0.0	2029	16.1
	18-49	0	0.0	8923	70.7
	50-64	0	0.0	589	4.7
	65+	0	0.0	12	0.1
	Not Reported	0	0.0	1	0.0
<b>Donor Gender</b>	Female	0	0.0	3728	29.5
	Male	1	100.0	8899	70.5
<b>Donor Race</b>	White	1	100.0	10036	79.5
	Black	0	0.0	1263	10.0
	Hispanic	0	0.0	1143	9.1
	Asian	0	0.0	90	0.7
	Other	0	0.0	87	0.7
	Not Reported	0	0.0	8	0.1
<b>Recipient Age</b>	<1	0	0.0	549	4.3
	1-10	1	100.0	431	3.4
	11-17	0	0.0	358	2.8
	18-49	0	0.0	4493	35.6
	50-64	0	0.0	6373	50.5
	65+	0	0.0	423	3.3
<b>Recipient Gender</b>	Female	0	0.0	2761	21.9
	Male	1	100.0	9866	78.1
<b>Recipient Race</b>	White	0	0.0	10504	83.2
	Black	1	100.0	1206	9.6
	Hispanic	0	0.0	570	4.5
	Asian	0	0.0	125	1.0
	Other	0	0.0	216	1.7
	Not Reported	0	0.0	6	0.0

		----- Program -----		--- National ---	
		Number	%	Number	%
Previous Heart Transplant	No	1	100.0	12231	96.9
	Yes	0	0.0	344	2.7
	Not Reported	0	0.0	52	0.4
On Ventilator at Transplant	No	1	100.0	11892	94.2
	Yes	0	0.0	663	5.3
	Not Reported	0	0.0	72	0.6
On VAD at Transplant	No	1	100.0	12187	96.5
	Yes	0	0.0	366	2.9
	Not Reported	0	0.0	74	0.6
On IABP at Transplant	No	1	100.0	11754	93.1
	Yes	0	0.0	801	6.3
	Not Reported	0	0.0	72	0.6
Diagnosis at Transplant	Coronary Artery Disease	1	100.0	5222	41.4
	Cardiomyopathy	0	0.0	5779	45.8
	Eisenmenger's Syndrome/Congenital	0	0.0	933	7.4
	Valvular Heart Disease	0	0.0	476	3.8
	Other Diagnosis	0	0.0	183	1.4
	Not Reported	0	0.0	34	0.3
Medical Condition at Transplant	Not Hospitalized	0	0.0	5606	44.4
	Hospitalized	0	0.0	986	7.8
	In ICU	1	100.0	6019	47.7
	Not Reported	0	0.0	16	0.1
Cold Ischemia Time	Up to 2 hrs	0	0.0	3458	27.4
	> 2 - 2.5 hrs	1	100.0	2271	18.0
	> 2.5 - 3 hrs	0	0.0	2408	19.1
	> 3 - 3.5 hrs	0	0.0	1949	15.4
	> 3.5 hrs	0	0.0	2453	19.4
	Not Reported	0	0.0	88	0.7
Year of Transplant	1988	0	0.0	1649	13.1
	1989	0	0.0	1677	13.3
	1990	0	0.0	2071	16.4
	1991	0	0.0	2098	16.6
	1992	0	0.0	2145	17.0
	1993	0	0.0	2266	17.9
	1994	1	100.0	721	5.7

Source: UNOS OPTN/Scientific Registry data.

## Heart Transplants: January 1, 1988 - April 30, 1994

Survival Report for Tulane University Medical Center - New Orleans LA  
Provider Number 190176 (LATU)Graft Survival

	Era 1: 1/1/88-4/30/92			Era 2: 5/1/92-4/30/94			Overall: 1/1/88-4/30/94						
Time Point	No. of TX	Act. Rate (%)	Exp. Rate (%)	No. of TX	Act. Rate (%)	Exp. Rate (%)	No. of TX	No. <sup>1</sup> w/CFU	No. Failed	Act. Rate (%)	Exp. Rate (%)	Diff. (%)	p- <sup>2</sup> value
1 Month				8	75.0	89.0	8	8	2	75.0	89.0	-14.0	0.20
1 Year				8	75.0	77.7	8	8	2	75.0	77.7	-2.7	0.85
Cond. <sup>3</sup> 3 Years													
3 Years <sup>3</sup>													

Patient Survival

	Era 1: 1/1/88-4/30/92			Era 2: 5/1/92-4/30/94			Overall: 1/1/88-4/30/94						
Time Point	No. of Pts. <sup>4</sup>	Act. Rate (%)	Exp. Rate (%)	No. of Pts. <sup>4</sup>	Act. Rate (%)	Exp. Rate (%)	No. of Pts. <sup>4</sup>	No. <sup>1,5</sup> w/CFU	No. <sup>5</sup> Died	Act. Rate (%)	Exp. Rate (%)	Diff. (%)	p- <sup>2</sup> value
1 Month				8	75.0	89.2	8	8.0	2.0	75.0	89.2	-14.2	0.19
1 Year				8	75.0	78.3	8	8.0	2.0	75.0	78.3	-3.3	0.82
Cond. <sup>3</sup> 3 Years													
3 Years <sup>3</sup>													

Notes: <sup>1</sup> No. with complete follow-up (CFU) is the total of the number of patients (grafts) whose status was known during the specified time interval.

<sup>2</sup> A p-value followed by an \* indicates that the difference is statistically significant at the 0.05 level.

<sup>3</sup> Conditional 3 year survival rates are the survival rates conditional on survival at 1 year. These are computed based on transplants between 1/1/88 and 4/30/92. Three year survival rates are computed by multiplying the 1 year and the conditional 3 year survival rates.

<sup>4</sup> The numbers of patients in Era 1 and Era 2 do not necessarily add up to the number of patients in the overall period, due to repeat transplants in different eras for some patients.

<sup>5</sup> No. w/CFU or No. Died may be fractional if patients received more than one transplant at the program.

Source: UNOS OPTN/Scientific Registry data.

**Heart Transplants: January 1, 1988 - April 30, 1994**  
**Donor and Recipient Characteristics: Program and National Frequencies**

**Tulane University Medical Center - New Orleans LA**  
**Provider Number 190176 (LATU)**

		----- Program -----		--- National ---	
		Number	%	Number	%
<b>Total Transplants and Percentages</b>		<b>8</b>	<b>100.0</b>	<b>12627</b>	<b>100.0</b>
<b>Donor Age</b>	0-5	3	37.5	799	6.3
	6-10	0	0.0	274	2.2
	11-17	1	12.5	2029	16.1
	18-49	4	50.0	8923	70.7
	50-64	0	0.0	589	4.7
	65+	0	0.0	12	0.1
	Not Reported	0	0.0	1	0.0
<b>Donor Gender</b>	Female	3	37.5	3728	29.5
	Male	5	62.5	8899	70.5
<b>Donor Race</b>	White	6	75.0	10036	79.5
	Black	2	25.0	1263	10.0
	Hispanic	0	0.0	1143	9.1
	Asian	0	0.0	90	0.7
	Other	0	0.0	87	0.7
	Not Reported	0	0.0	8	0.1
<b>Recipient Age</b>	<1	2	25.0	549	4.3
	1-10	1	12.5	431	3.4
	11-17	0	0.0	358	2.8
	18-49	3	37.5	4493	35.6
	50-64	2	25.0	6373	50.5
	65+	0	0.0	423	3.3
<b>Recipient Gender</b>	Female	5	62.5	2761	21.9
	Male	3	37.5	9866	78.1
<b>Recipient Race</b>	White	5	62.5	10504	83.2
	Black	3	37.5	1206	9.6
	Hispanic	0	0.0	570	4.5
	Asian	0	0.0	125	1.0
	Other	0	0.0	216	1.7
	Not Reported	0	0.0	6	0.0



		----- Program -----		--- National ---	
		Number	%	Number	%
<b>Previous Heart Transplant</b>	No	8	100.0	12231	96.9
	Yes	0	0.0	344	2.7
	Not Reported	0	0.0	52	0.4
<b>On Ventilator at Transplant</b>	No	6	75.0	11892	94.2
	Yes	2	25.0	663	5.3
	Not Reported	0	0.0	72	0.6
<b>On VAD at Transplant</b>	No	8	100.0	12187	96.5
	Yes	0	0.0	366	2.9
	Not Reported	0	0.0	74	0.6
<b>On IABP at Transplant</b>	No	7	87.5	11754	93.1
	Yes	1	12.5	801	6.3
	Not Reported	0	0.0	72	0.6
<b>Diagnosis at Transplant</b>	Coronary Artery Disease	0	0.0	5222	41.4
	Cardiomyopathy	6	75.0	5779	45.8
	Eisenmenger's Syndrome/Congenital	2	25.0	933	7.4
	Valvular Heart Disease	0	0.0	476	3.8
	Other Diagnosis	0	0.0	183	1.4
	Not Reported	0	0.0	34	0.3
<b>Medical Condition at Transplant</b>	Not Hospitalized	1	12.5	5606	44.4
	Hospitalized	0	0.0	986	7.8
	In ICU	7	87.5	6019	47.7
	Not Reported	0	0.0	16	0.1
<b>Cold Ischemia Time</b>	Up to 2 hrs	1	12.5	3458	27.4
	> 2 - 2.5 hrs	1	12.5	2271	18.0
	> 2.5 - 3 hrs	1	12.5	2408	19.1
	> 3 - 3.5 hrs	2	25.0	1949	15.4
	> 3.5 hrs	3	37.5	2453	19.4
	Not Reported	0	0.0	88	0.7
<b>Year of Transplant</b>	1988	0	0.0	1649	13.1
	1989	0	0.0	1677	13.3
	1990	0	0.0	2071	16.4
	1991	0	0.0	2098	16.6
	1992	1	12.5	2145	17.0
	1993	4	50.0	2266	17.9
	1994	3	37.5	721	5.7

Source: UNOS OPTN/Scientific Registry data.

## Heart Transplants: January 1, 1988 - April 30, 1994

Survival Report for Willis-Knighton Medical Center - Shreveport LA  
Provider Number 190111 (LAWK)Graft Survival

	Era 1: 1/1/88-4/30/92			Era 2: 5/1/92-4/30/94			Overall: 1/1/88-4/30/94						
Time Point	No. of TX	Act. Rate (%)	Exp. Rate (%)	No. of TX	Act. Rate (%)	Exp. Rate (%)	No. of TX	No. <sup>1</sup> w/CFU	No. Failed	Act. Rate (%)	Exp. Rate (%)	Diff. (%)	p- <sup>2</sup> value
1 Month	37	97.3	92.4	36	88.9	94.1	73	73	5	93.2	93.2	-0.1	0.98
1 Year	37	89.2	81.8	36	80.6	84.3	73	73	11	84.9	83.1	1.9	0.67
Cond. <sup>3</sup> 3 Years	33	84.8	89.3				33	33	5	84.8	89.3	-4.4	0.41
3 Years <sup>3</sup>		75.7	73.1										

Patient Survival

	Era 1: 1/1/88-4/30/92			Era 2: 5/1/92-4/30/94			Overall: 1/1/88-4/30/94						
Time Point	No. of Pts. <sup>4</sup>	Act. Rate (%)	Exp. Rate (%)	No. of Pts. <sup>4</sup>	Act. Rate (%)	Exp. Rate (%)	No. of Pts. <sup>4</sup>	No. <sup>1,5</sup> w/CFU	No. <sup>5</sup> Died	Act. Rate (%)	Exp. Rate (%)	Diff. (%)	p- <sup>2</sup> value
1 Month	37	97.3	92.7	36	88.9	94.3	73	73.0	5.0	93.2	93.5	-0.3	0.91
1 Year	37	89.2	82.5	36	80.6	84.8	73	73.0	11.0	84.9	83.6	1.3	0.76
Cond. <sup>3</sup> 3 Years	33	84.8	89.9				33	33.0	5.0	84.8	89.9	-5.0	0.34
3 Years <sup>3</sup>		75.7	74.2										

Notes: <sup>1</sup> No. with complete follow-up (CFU) is the total of the number of patients (grafts) whose status was known during the specified time interval.

<sup>2</sup> A p-value followed by an \* indicates that the difference is statistically significant at the 0.05 level.

<sup>3</sup> Conditional 3 year survival rates are the survival rates conditional on survival at 1 year. These are computed based on transplants between 1/1/88 and 4/30/92. Three year survival rates are computed by multiplying the 1 year and the conditional 3 year survival rates.

<sup>4</sup> The numbers of patients in Era 1 and Era 2 do not necessarily add up to the number of patients in the overall period, due to repeat transplants in different eras for some patients.

<sup>5</sup> No. w/CFU or No. Died may be fractional if patients received more than one transplant at the program.

Source: UNOS OPTN/Scientific Registry data.

**Heart Transplants: January 1, 1988 - April 30, 1994**  
**Donor and Recipient Characteristics: Program and National Frequencies**

**Willis-Knighton Medical Center - Shreveport LA**  
**Provider Number 190111 (LAWK)**

		----- Program -----		--- National ---	
		Number	%	Number	%
<b>Total Transplants and Percentages</b>		<b>73</b>	<b>100.0</b>	<b>12627</b>	<b>100.0</b>
<b>Donor Age</b>	0-5	0	0.0	799	6.3
	6-10	0	0.0	274	2.2
	11-17	11	15.1	2029	16.1
	18-49	56	76.7	8923	70.7
	50-64	6	8.2	589	4.7
	65+	0	0.0	12	0.1
	Not Reported	0	0.0	1	0.0
<b>Donor Gender</b>	Female	22	30.1	3728	29.5
	Male	51	69.9	8899	70.5
<b>Donor Race</b>	White	54	74.0	10036	79.5
	Black	14	19.2	1263	10.0
	Hispanic	4	5.5	1143	9.1
	Asian	0	0.0	90	0.7
	Other	1	1.4	87	0.7
	Not Reported	0	0.0	8	0.1
<b>Recipient Age</b>	<1	0	0.0	549	4.3
	1-10	0	0.0	431	3.4
	11-17	2	2.7	358	2.8
	18-49	30	41.1	4493	35.6
	50-64	39	53.4	6373	50.5
	65+	2	2.7	423	3.3
<b>Recipient Gender</b>	Female	18	24.7	2761	21.9
	Male	55	75.3	9866	78.1
<b>Recipient Race</b>	White	53	72.6	10504	83.2
	Black	19	26.0	1206	9.6
	Hispanic	0	0.0	570	4.5
	Asian	0	0.0	125	1.0
	Other	1	1.4	216	1.7
	Not Reported	0	0.0	6	0.0

		----- Program -----		--- National ---	
		Number	%	Number	%
<b>Previous Heart Transplant</b>	No	73	100.0	12231	96.9
	Yes	0	0.0	344	2.7
	Not Reported	0	0.0	52	0.4
<b>On Ventilator at Transplant</b>	No	73	100.0	11892	94.2
	Yes	0	0.0	663	5.3
	Not Reported	0	0.0	72	0.6
<b>On VAD at Transplant</b>	No	73	100.0	12187	96.5
	Yes	0	0.0	366	2.9
	Not Reported	0	0.0	74	0.6
<b>On IABP at Transplant</b>	No	73	100.0	11754	93.1
	Yes	0	0.0	801	6.3
	Not Reported	0	0.0	72	0.6
<b>Diagnosis at Transplant</b>	Coronary Artery Disease	16	21.9	5222	41.4
	Cardiomyopathy	55	75.3	5779	45.8
	Eisenmenger's Syndrome/Congenital	0	0.0	933	7.4
	Valvular Heart Disease	2	2.7	476	3.8
	Other Diagnosis	0	0.0	183	1.4
	Not Reported	0	0.0	34	0.3
<b>Medical Condition at Transplant</b>	Not Hospitalized	15	20.5	5606	44.4
	Hospitalized	3	4.1	986	7.8
	In ICU	55	75.3	6019	47.7
	Not Reported	0	0.0	16	0.1
<b>Cold Ischemia Time</b>	Up to 2 hrs	19	26.0	3458	27.4
	> 2 - 2.5 hrs	13	17.8	2271	18.0
	> 2.5 - 3 hrs	19	26.0	2408	19.1
	> 3 - 3.5 hrs	10	13.7	1949	15.4
	> 3.5 hrs	12	16.4	2453	19.4
	Not Reported	0	0.0	88	0.7
<b>Year of Transplant</b>	1988	0	0.0	1649	13.1
	1989	0	0.0	1677	13.3
	1990	12	16.4	2071	16.4
	1991	16	21.9	2098	16.6
	1992	22	30.1	2145	17.0
	1993	16	21.9	2266	17.9
	1994	7	9.6	721	5.7

Source: UNOS OPTN/Scientific Registry data.

## Heart Transplants: January 1, 1988 - April 30, 1994

Survival Report for Children's Hospital - Boston MA  
Provider Number 223302 (MACH)Graft Survival

	Era 1: 1/1/88-4/30/92			Era 2: 5/1/92-4/30/94			Overall: 1/1/88-4/30/94						
Time Point	No. of TX	Act. Rate (%)	Exp. Rate (%)	No. of TX	Act. Rate (%)	Exp. Rate (%)	No. of TX	No. <sup>1</sup> w/CFU	No. Failed	Act. Rate (%)	Exp. Rate (%)	Diff. (%)	p- <sup>2</sup> value
1 Month	16	100.0	89.2	13	100.0	86.2	29	29	0	100.0	87.9	12.1	0.04*
1 Year	16	93.8	81.4	13	92.3	79.3	29	29	2	93.1	80.5	12.6	0.08
Cond. <sup>3</sup> 3 Years	15	100.0	90.5				15	15	0	100.0	90.5	9.5	0.21
3 Years <sup>3</sup>		93.8	73.7										

Patient Survival

	Era 1: 1/1/88-4/30/92			Era 2: 5/1/92-4/30/94			Overall: 1/1/88-4/30/94						
Time Point	No. of Pts. <sup>4</sup>	Act. Rate (%)	Exp. Rate (%)	No. of Pts. <sup>4</sup>	Act. Rate (%)	Exp. Rate (%)	No. of Pts. <sup>4</sup>	No. <sup>1,5</sup> w/CFU	No. <sup>5</sup> Died	Act. Rate (%)	Exp. Rate (%)	Diff. (%)	p- <sup>2</sup> value
1 Month	16	100.0	90.0	13	100.0	87.2	29	29.0	0.0	100.0	88.7	11.3	0.05*
1 Year	16	93.8	82.6	13	92.3	80.5	29	29.0	2.0	93.1	81.6	11.5	0.10
Cond. <sup>3</sup> 3 Years	15	100.0	91.1				15	15.0	0.0	100.0	91.1	8.9	0.22
3 Years <sup>3</sup>		93.8	75.2										

Notes: <sup>1</sup> No. with complete follow-up (CFU) is the total of the number of patients (grafts) whose status was known during the specified time interval.

<sup>2</sup> A p-value followed by an \* indicates that the difference is statistically significant at the 0.05 level.

<sup>3</sup> Conditional 3 year survival rates are the survival rates conditional on survival at 1 year. These are computed based on transplants between 1/1/88 and 4/30/92. Three year survival rates are computed by multiplying the 1 year and the conditional 3 year survival rates.

<sup>4</sup> The numbers of patients in Era 1 and Era 2 do not necessarily add up to the number of patients in the overall period, due to repeat transplants in different eras for some patients.

<sup>5</sup> No. w/CFU or No. Died may be fractional if patients received more than one transplant at the program.

Source: UNOS OPTN/Scientific Registry data.

**Heart Transplants: January 1, 1988 - April 30, 1994**  
**Donor and Recipient Characteristics: Program and National Frequencies**

**Children's Hospital - Boston MA**  
**Provider Number 223302 (MACH)**

		----- Program -----		--- National ---	
		Number	%	Number	%
<b>Total Transplants and Percentages</b>		<b>29</b>	<b>100.0</b>	<b>12627</b>	<b>100.0</b>
<b>Donor Age</b>	0-5	7	24.1	799	6.3
	6-10	7	24.1	274	2.2
	11-17	4	13.8	2029	16.1
	18-49	11	37.9	8923	70.7
	50-64	0	0.0	589	4.7
	65+	0	0.0	12	0.1
	Not Reported	0	0.0	1	0.0
<b>Donor Gender</b>	Female	11	37.9	3728	29.5
	Male	18	62.1	8899	70.5
<b>Donor Race</b>	White	28	96.6	10036	79.5
	Black	1	3.4	1263	10.0
	Hispanic	0	0.0	1143	9.1
	Asian	0	0.0	90	0.7
	Other	0	0.0	87	0.7
	Not Reported	0	0.0	8	0.1
<b>Recipient Age</b>	<1	2	6.9	549	4.3
	1-10	10	34.5	431	3.4
	11-17	10	34.5	358	2.8
	18-49	7	24.1	4493	35.6
	50-64	0	0.0	6373	50.5
	65+	0	0.0	423	3.3
<b>Recipient Gender</b>	Female	12	41.4	2761	21.9
	Male	17	58.6	9866	78.1
<b>Recipient Race</b>	White	26	89.7	10504	83.2
	Black	1	3.4	1206	9.6
	Hispanic	2	6.9	570	4.5
	Asian	0	0.0	125	1.0
	Other	0	0.0	216	1.7
	Not Reported	0	0.0	6	0.0



		----- Program -----		--- National ---	
		Number	%	Number	%
<b>Previous Heart Transplant</b>	No	29	100.0	12231	96.9
	Yes	0	0.0	344	2.7
	Not Reported	0	0.0	52	0.4
<b>On Ventilator at Transplant</b>	No	25	86.2	11892	94.2
	Yes	4	13.8	663	5.3
	Not Reported	0	0.0	72	0.6
<b>On VAD at Transplant</b>	No	27	93.1	12187	96.5
	Yes	2	6.9	366	2.9
	Not Reported	0	0.0	74	0.6
<b>On IABP at Transplant</b>	No	28	96.6	11754	93.1
	Yes	1	3.4	801	6.3
	Not Reported	0	0.0	72	0.6
<b>Diagnosis at Transplant</b>	Coronary Artery Disease	0	0.0	5222	41.4
	Cardiomyopathy	13	44.8	5779	45.8
	Eisenmenger's Syndrome/Congenital	16	55.2	933	7.4
	Valvular Heart Disease	0	0.0	476	3.8
	Other Diagnosis	0	0.0	183	1.4
	Not Reported	0	0.0	34	0.3
<b>Medical Condition at Transplant</b>	Not Hospitalized	14	48.3	5606	44.4
	Hospitalized	3	10.3	986	7.8
	In ICU	12	41.4	6019	47.7
	Not Reported	0	0.0	16	0.1
<b>Cold Ischemia Time</b>	Up to 2 hrs	2	6.9	3458	27.4
	> 2 - 2.5 hrs	5	17.2	2271	18.0
	> 2.5 - 3 hrs	2	6.9	2408	19.1
	> 3 - 3.5 hrs	10	34.5	1949	15.4
	> 3.5 hrs	10	34.5	2453	19.4
	Not Reported	0	0.0	88	0.7
<b>Year of Transplant</b>	1988	6	20.7	1649	13.1
	1989	5	17.2	1677	13.3
	1990	4	13.8	2071	16.4
	1991	1	3.4	2098	16.6
	1992	4	13.8	2145	17.0
	1993	9	31.0	2266	17.9
	1994	0	0.0	721	5.7

Source: UNOS OPTN/Scientific Registry data.

**Heart Transplants: January 1, 1988 - April 30, 1994****Survival Report for Massachusetts General Hospital - Boston MA  
Provider Number 220071 (MAMG)****Graft Survival**

	<b>Era 1:</b> 1/1/88-4/30/92			<b>Era 2:</b> 5/1/92-4/30/94			<b>Overall:</b> 1/1/88-4/30/94						
<b>Time Point</b>	No. of TX	Act. Rate (%)	Exp. Rate (%)	No. of TX	Act. Rate (%)	Exp. Rate (%)	No. of TX	No. <sup>1</sup> w/CFU	No. Failed	Act. Rate (%)	Exp. Rate (%)	Diff. (%)	p- <sup>2</sup> value
<b>1 Month</b>	42	95.2	91.5	42	92.9	90.8	84	84	5	94.0	91.2	2.9	0.34
<b>1 Year</b>	42	83.3	82.6	42	81.0	81.5	84	84	15	82.1	82.1	0.1	0.99
<b>Cond. <sup>3</sup> 3 Years</b>	35	88.6	90.7				35	35	4	88.6	90.7	-2.1	0.66
<b>3 Years <sup>3</sup></b>		73.8	75.0										

**Patient Survival**

	<b>Era 1:</b> 1/1/88-4/30/92			<b>Era 2:</b> 5/1/92-4/30/94			<b>Overall:</b> 1/1/88-4/30/94						
<b>Time Point</b>	No. of Pts. <sup>4</sup>	Act. Rate (%)	Exp. Rate (%)	No. of Pts. <sup>4</sup>	Act. Rate (%)	Exp. Rate (%)	No. of Pts. <sup>4</sup>	No. <sup>1,5</sup> w/CFU	No. <sup>5</sup> Died	Act. Rate (%)	Exp. Rate (%)	Diff. (%)	p- <sup>2</sup> value
<b>1 Month</b>	41	97.6	92.3	41	96.3	91.9	82	81.0	2.5	96.9	92.1	4.8	0.10
<b>1 Year</b>	41	85.4	83.6	41	85.0	82.8	82	81.0	12.0	85.2	83.2	2.0	0.62
<b>Cond. <sup>3</sup> 3 Years</b>	35	88.6	91.3				35	35.0	4.0	88.6	91.3	-2.7	0.57
<b>3 Years <sup>3</sup></b>		75.6	76.3										

Notes: <sup>1</sup> No. with complete follow-up (CFU) is the total of the number of patients (grafts) whose status was known during the specified time interval.

<sup>2</sup> A p-value followed by an \* indicates that the difference is statistically significant at the 0.05 level.

<sup>3</sup> Conditional 3 year survival rates are the survival rates conditional on survival at 1 year. These are computed based on transplants between 1/1/88 and 4/30/92. Three year survival rates are computed by multiplying the 1 year and the conditional 3 year survival rates.

<sup>4</sup> The numbers of patients in Era 1 and Era 2 do not necessarily add up to the number of patients in the overall period, due to repeat transplants in different eras for some patients.

<sup>5</sup> No. w/CFU or No. Died may be fractional if patients received more than one transplant at the program.

Source: UNOS OPTN/Scientific Registry data.

**Heart Transplants: January 1, 1988 - April 30, 1994**  
**Donor and Recipient Characteristics: Program and National Frequencies**

**Massachusetts General Hospital - Boston MA**  
**Provider Number 220071 (MAMG)**

		---- Program ----		--- National ---	
		Number	%	Number	%
<b>Total Transplants and Percentages</b>		<b>84</b>	<b>100.0</b>	<b>12627</b>	<b>100.0</b>
<b>Donor Age</b>	0-5	0	0.0	799	6.3
	6-10	0	0.0	274	2.2
	11-17	13	15.5	2029	16.1
	18-49	63	75.0	8923	70.7
	50-64	8	9.5	589	4.7
	65+	0	0.0	12	0.1
	Not Reported	0	0.0	1	0.0
<b>Donor Gender</b>	Female	27	32.1	3728	29.5
	Male	57	67.9	8899	70.5
<b>Donor Race</b>	White	79	94.0	10036	79.5
	Black	3	3.6	1263	10.0
	Hispanic	2	2.4	1143	9.1
	Asian	0	0.0	90	0.7
	Other	0	0.0	87	0.7
	Not Reported	0	0.0	8	0.1
<b>Recipient Age</b>	<1	0	0.0	549	4.3
	1-10	0	0.0	431	3.4
	11-17	1	1.2	358	2.8
	18-49	31	36.9	4493	35.6
	50-64	52	61.9	6373	50.5
	65+	0	0.0	423	3.3
<b>Recipient Gender</b>	Female	12	14.3	2761	21.9
	Male	72	85.7	9866	78.1
<b>Recipient Race</b>	White	78	92.9	10504	83.2
	Black	3	3.6	1206	9.6
	Hispanic	0	0.0	570	4.5
	Asian	0	0.0	125	1.0
	Other	3	3.6	216	1.7
	Not Reported	0	0.0	6	0.0

		----- Program -----		--- National ---	
		Number	%	Number	%
<b>Previous Heart Transplant</b>	No	82	97.6	12231	96.9
	Yes	2	2.4	344	2.7
	Not Reported	0	0.0	52	0.4
<b>On Ventilator at Transplant</b>	No	82	97.6	11892	94.2
	Yes	2	2.4	663	5.3
	Not Reported	0	0.0	72	0.6
<b>On VAD at Transplant</b>	No	82	97.6	12187	96.5
	Yes	2	2.4	366	2.9
	Not Reported	0	0.0	74	0.6
<b>On IABP at Transplant</b>	No	71	84.5	11754	93.1
	Yes	13	15.5	801	6.3
	Not Reported	0	0.0	72	0.6
<b>Diagnosis at Transplant</b>	Coronary Artery Disease	39	46.4	5222	41.4
	Cardiomyopathy	33	39.3	5779	45.8
	Eisenmenger's Syndrome/Congenital	3	3.6	933	7.4
	Valvular Heart Disease	9	10.7	476	3.8
	Other Diagnosis	0	0.0	183	1.4
	Not Reported	0	0.0	34	0.3
<b>Medical Condition at Transplant</b>	Not Hospitalized	29	34.5	5606	44.4
	Hospitalized	7	8.3	986	7.8
	In ICU	48	57.1	6019	47.7
	Not Reported	0	0.0	16	0.1
<b>Cold Ischemia Time</b>	Up to 2 hrs	11	13.1	3458	27.4
	> 2 - 2.5 hrs	22	26.2	2271	18.0
	> 2.5 - 3 hrs	30	35.7	2408	19.1
	> 3 - 3.5 hrs	15	17.9	1949	15.4
	> 3.5 hrs	6	7.1	2453	19.4
	Not Reported	0	0.0	88	0.7
<b>Year of Transplant</b>	1988	7	8.3	1649	13.1
	1989	4	4.8	1677	13.3
	1990	10	11.9	2071	16.4
	1991	16	19.0	2098	16.6
	1992	22	26.2	2145	17.0
	1993	18	21.4	2266	17.9
	1994	7	8.3	721	5.7

Source: UNOS OPTN/Scientific Registry data.

## Heart Transplants: January 1, 1988 - April 30, 1994

Survival Report for New England Medical Center - Boston MA  
Provider Number 220116 (MANM)Graft Survival

	Era 1: 1/1/88-4/30/92			Era 2: 5/1/92-4/30/94			Overall: 1/1/88-4/30/94						
Time Point	No. of TX	Act. Rate (%)	Exp. Rate (%)	No. of TX	Act. Rate (%)	Exp. Rate (%)	No. of TX	No. <sup>1</sup> w/CFU	No. Failed	Act. Rate (%)	Exp. Rate (%)	Diff. (%)	p- <sup>2</sup> value
1 Month	20	90.0	93.8	18	100.0	92.6	38	38	2	94.7	93.2	1.5	0.71
1 Year	20	75.0	85.3	18	83.3	83.7	38	38	8	78.9	84.5	-5.6	0.33
Cond. <sup>3</sup> 3 Years	15	80.0	91.0				15	15	3	80.0	91.0	-11.0	0.14
3 Years <sup>3</sup>		60.0	77.6										

Patient Survival

	Era 1: 1/1/88-4/30/92			Era 2: 5/1/92-4/30/94			Overall: 1/1/88-4/30/94						
Time Point	No. of Pts. <sup>4</sup>	Act. Rate (%)	Exp. Rate (%)	No. of Pts. <sup>4</sup>	Act. Rate (%)	Exp. Rate (%)	No. of Pts. <sup>4</sup>	No. <sup>1,5</sup> w/CFU	No. <sup>5</sup> Died	Act. Rate (%)	Exp. Rate (%)	Diff. (%)	p- <sup>2</sup> value
1 Month	20	90.0	94.1	18	100.0	93.0	38	38.0	2.0	94.7	93.6	1.1	0.77
1 Year	20	75.0	86.0	18	83.3	84.3	38	38.0	8.0	78.9	85.2	-6.2	0.27
Cond. <sup>3</sup> 3 Years	15	80.0	91.5				15	15.0	3.0	80.0	91.5	-11.5	0.11
3 Years <sup>3</sup>		60.0	78.7										

Notes: <sup>1</sup> No. with complete follow-up (CFU) is the total of the number of patients (grafts) whose status was known during the specified time interval.

<sup>2</sup> A p-value followed by an \* indicates that the difference is statistically significant at the 0.05 level.

<sup>3</sup> Conditional 3 year survival rates are the survival rates conditional on survival at 1 year. These are computed based on transplants between 1/1/88 and 4/30/92. Three year survival rates are computed by multiplying the 1 year and the conditional 3 year survival rates.

<sup>4</sup> The numbers of patients in Era 1 and Era 2 do not necessarily add up to the number of patients in the overall period, due to repeat transplants in different eras for some patients.

<sup>5</sup> No. w/CFU or No. Died may be fractional if patients received more than one transplant at the program.

Source: UNOS OPTN/Scientific Registry data.

**Heart Transplants: January 1, 1988 - April 30, 1994**  
**Donor and Recipient Characteristics: Program and National Frequencies**

**New England Medical Center - Boston MA**  
**Provider Number 220116 (MANM)**

		----- Program -----		--- National ---	
		Number	%	Number	%
<b>Total Transplants and Percentages</b>		<b>38</b>	<b>100.0</b>	<b>12627</b>	<b>100.0</b>
<b>Donor Age</b>	0-5	0	0.0	799	6.3
	6-10	0	0.0	274	2.2
	11-17	4	10.5	2029	16.1
	18-49	30	78.9	8923	70.7
	50-64	4	10.5	589	4.7
	65+	0	0.0	12	0.1
	Not Reported	0	0.0	1	0.0
<b>Donor Gender</b>	Female	13	34.2	3728	29.5
	Male	25	65.8	8899	70.5
<b>Donor Race</b>	White	37	97.4	10036	79.5
	Black	0	0.0	1263	10.0
	Hispanic	1	2.6	1143	9.1
	Asian	0	0.0	90	0.7
	Other	0	0.0	87	0.7
	Not Reported	0	0.0	8	0.1
<b>Recipient Age</b>	<1	0	0.0	549	4.3
	1-10	0	0.0	431	3.4
	11-17	2	5.3	358	2.8
	18-49	14	36.8	4493	35.6
	50-64	22	57.9	6373	50.5
	65+	0	0.0	423	3.3
<b>Recipient Gender</b>	Female	4	10.5	2761	21.9
	Male	34	89.5	9866	78.1
<b>Recipient Race</b>	White	32	84.2	10504	83.2
	Black	2	5.3	1206	9.6
	Hispanic	3	7.9	570	4.5
	Asian	0	0.0	125	1.0
	Other	1	2.6	216	1.7
	Not Reported	0	0.0	6	0.0



		----- Program -----		--- National ---	
		Number	%	Number	%
Previous Heart Transplant	No	38	100.0	12231	96.9
	Yes	0	0.0	344	2.7
	Not Reported	0	0.0	52	0.4
On Ventilator at Transplant	No	38	100.0	11892	94.2
	Yes	0	0.0	663	5.3
	Not Reported	0	0.0	72	0.6
On VAD at Transplant	No	38	100.0	12187	96.5
	Yes	0	0.0	366	2.9
	Not Reported	0	0.0	74	0.6
On IABP at Transplant	No	37	97.4	11754	93.1
	Yes	1	2.6	801	6.3
	Not Reported	0	0.0	72	0.6
Diagnosis at Transplant	Coronary Artery Disease	16	42.1	5222	41.4
	Cardiomyopathy	19	50.0	5779	45.8
	Eisenmenger's Syndrome/Congenital	0	0.0	933	7.4
	Valvular Heart Disease	3	7.9	476	3.8
	Other Diagnosis	0	0.0	183	1.4
	Not Reported	0	0.0	34	0.3
Medical Condition at Transplant	Not Hospitalized	16	42.1	5606	44.4
	Hospitalized	5	13.2	986	7.8
	In ICU	17	44.7	6019	47.7
	Not Reported	0	0.0	16	0.1
Cold Ischemia Time	Up to 2 hrs	11	28.9	3458	27.4
	> 2 - 2.5 hrs	9	23.7	2271	18.0
	> 2.5 - 3 hrs	7	18.4	2408	19.1
	> 3 - 3.5 hrs	8	21.1	1949	15.4
	> 3.5 hrs	3	7.9	2453	19.4
	Not Reported	0	0.0	88	0.7
Year of Transplant	1988	3	7.9	1649	13.1
	1989	7	18.4	1677	13.3
	1990	5	13.2	2071	16.4
	1991	4	10.5	2098	16.6
	1992	10	26.3	2145	17.0
	1993	5	13.2	2266	17.9
	1994	4	10.5	721	5.7

Source: UNOS OPTN/Scientific Registry data.

## Heart Transplants: January 1, 1988 - April 30, 1994

Survival Report for Brigham & Women's Hospital - Boston MA  
Provider Number 220110 (MAPB)Graft Survival

	Era 1: 1/1/88-4/30/92			Era 2: 5/1/92-4/30/94			Overall: 1/1/88-4/30/94						
Time Point	No. of TX	Act. Rate (%)	Exp. Rate (%)	No. of TX	Act. Rate (%)	Exp. Rate (%)	No. of TX	No. <sup>1</sup> w/CFU	No. Failed	Act. Rate (%)	Exp. Rate (%)	Diff. (%)	p- <sup>2</sup> value
1 Month	132	93.9	92.7	63	92.1	90.8	195	195	13	93.3	92.1	1.2	0.51
1 Year	132	81.1	83.5	63	84.1	81.4	195	195	35	82.1	82.8	-0.8	0.77
Cond. <sup>3</sup> 3 Years	107	91.6	90.7				107	107	9	91.6	90.7	0.9	0.74
3 Years <sup>3</sup>		74.2	75.7										

Patient Survival

	Era 1: 1/1/88-4/30/92			Era 2: 5/1/92-4/30/94			Overall: 1/1/88-4/30/94						
Time Point	No. of Pts. <sup>4</sup>	Act. Rate (%)	Exp. Rate (%)	No. of Pts. <sup>4</sup>	Act. Rate (%)	Exp. Rate (%)	No. of Pts. <sup>4</sup>	No. <sup>1,5</sup> w/CFU	No. <sup>5</sup> Died	Act. Rate (%)	Exp. Rate (%)	Diff. (%)	p- <sup>2</sup> value
1 Month	131	93.9	93.2	61	95.1	91.7	192	192.0	11.0	94.3	92.7	1.5	0.40
1 Year	131	81.7	84.3	61	86.9	82.6	192	192.0	32.0	83.3	83.8	-0.5	0.86
Cond. <sup>3</sup> 3 Years	107	91.6	91.2				107	107.0	9.0	91.6	91.2	0.4	0.88
3 Years <sup>3</sup>		74.8	76.9										

Notes: <sup>1</sup> No. with complete follow-up (CFU) is the total of the number of patients (grafts) whose status was known during the specified time interval.

<sup>2</sup> A p-value followed by an \* indicates that the difference is statistically significant at the 0.05 level.

<sup>3</sup> Conditional 3 year survival rates are the survival rates conditional on survival at 1 year. These are computed based on transplants between 1/1/88 and 4/30/92. Three year survival rates are computed by multiplying the 1 year and the conditional 3 year survival rates.

<sup>4</sup> The numbers of patients in Era 1 and Era 2 do not necessarily add up to the number of patients in the overall period, due to repeat transplants in different eras for some patients.

<sup>5</sup> No. w/CFU or No. Died may be fractional if patients received more than one transplant at the program.

Source: UNOS OPTN/Scientific Registry data.

**Heart Transplants: January 1, 1988 - April 30, 1994**  
**Donor and Recipient Characteristics: Program and National Frequencies**

**Brigham & Women's Hospital - Boston MA**  
**Provider Number 220110 (MAPB)**

		----- Program -----		--- National ---	
		Number	%	Number	%
<b>Total Transplants and Percentages</b>		<b>195</b>	<b>100.0</b>	<b>12627</b>	<b>100.0</b>
<b>Donor Age</b>	0-5	0	0.0	799	6.3
	6-10	3	1.5	274	2.2
	11-17	33	16.9	2029	16.1
	18-49	139	71.3	8923	70.7
	50-64	20	10.3	589	4.7
	65+	0	0.0	12	0.1
	Not Reported	0	0.0	1	0.0
<b>Donor Gender</b>	Female	65	33.3	3728	29.5
	Male	130	66.7	8899	70.5
<b>Donor Race</b>	White	179	91.8	10036	79.5
	Black	7	3.6	1263	10.0
	Hispanic	5	2.6	1143	9.1
	Asian	0	0.0	90	0.7
	Other	3	1.5	87	0.7
	Not Reported	1	0.5	8	0.1
<b>Recipient Age</b>	<1	1	0.5	549	4.3
	1-10	0	0.0	431	3.4
	11-17	0	0.0	358	2.8
	18-49	81	41.5	4493	35.6
	50-64	113	57.9	6373	50.5
	65+	0	0.0	423	3.3
<b>Recipient Gender</b>	Female	47	24.1	2761	21.9
	Male	148	75.9	9866	78.1
<b>Recipient Race</b>	White	181	92.8	10504	83.2
	Black	8	4.1	1206	9.6
	Hispanic	3	1.5	570	4.5
	Asian	0	0.0	125	1.0
	Other	3	1.5	216	1.7
	Not Reported	0	0.0	6	0.0

		----- Program -----		--- National ---	
		Number	%	Number	%
<b>Previous Heart Transplant</b>	No	190	97.4	12231	96.9
	Yes	3	1.5	344	2.7
	Not Reported	2	1.0	52	0.4
<b>On Ventilator at Transplant</b>	No	185	94.9	11892	94.2
	Yes	3	1.5	663	5.3
	Not Reported	7	3.6	72	0.6
<b>On VAD at Transplant</b>	No	185	94.9	12187	96.5
	Yes	3	1.5	366	2.9
	Not Reported	7	3.6	74	0.6
<b>On IABP at Transplant</b>	No	164	84.1	11754	93.1
	Yes	25	12.8	801	6.3
	Not Reported	6	3.1	72	0.6
<b>Diagnosis at Transplant</b>	Coronary Artery Disease	92	47.2	5222	41.4
	Cardiomyopathy	81	41.5	5779	45.8
	Eisenmenger's Syndrome/Congenital	1	0.5	933	7.4
	Valvular Heart Disease	15	7.7	476	3.8
	Other Diagnosis	5	2.6	183	1.4
	Not Reported	1	0.5	34	0.3
<b>Medical Condition at Transplant</b>	Not Hospitalized	79	40.5	5606	44.4
	Hospitalized	58	29.7	986	7.8
	In ICU	58	29.7	6019	47.7
	Not Reported	0	0.0	16	0.1
<b>Cold Ischemia Time</b>	Up to 2 hrs	32	16.4	3458	27.4
	> 2 - 2.5 hrs	30	15.4	2271	18.0
	> 2.5 - 3 hrs	36	18.5	2408	19.1
	> 3 - 3.5 hrs	52	26.7	1949	15.4
	> 3.5 hrs	45	23.1	2453	19.4
	Not Reported	0	0.0	88	0.7
<b>Year of Transplant</b>	1988	23	11.8	1649	13.1
	1989	31	15.9	1677	13.3
	1990	33	16.9	2071	16.4
	1991	37	19.0	2098	16.6
	1992	31	15.9	2145	17.0
	1993	34	17.4	2266	17.9
	1994	6	3.1	721	5.7

Source: UNOS OPTN/Scientific Registry data.

## Heart Transplants: January 1, 1988 - April 30, 1994

Survival Report for Johns Hopkins Hospital - Baltimore MD  
Provider Number 210009 (MDJH)Graft Survival

	Era 1: 1/1/88-4/30/92			Era 2: 5/1/92-4/30/94			Overall: 1/1/88-4/30/94						
Time Point	No. of TX	Act. Rate (%)	Exp. Rate (%)	No. of TX	Act. Rate (%)	Exp. Rate (%)	No. of TX	No. <sup>1</sup> w/CFU	No. Failed	Act. Rate (%)	Exp. Rate (%)	Diff. (%)	p- <sup>2</sup> value
1 Month	71	95.8	91.9	34	91.2	93.1	105	105	6	94.3	92.3	2.0	0.44
1 Year	71	77.2	81.5	34	79.4	83.0	105	104	23	77.9	81.9	-4.0	0.27
Cond. <sup>3</sup> 3 Years	54	87.0	90.2				54	54	7	87.0	90.2	-3.1	0.44
3 Years <sup>3</sup>		67.2	73.4										

Patient Survival

	Era 1: 1/1/88-4/30/92			Era 2: 5/1/92-4/30/94			Overall: 1/1/88-4/30/94						
Time Point	No. of Pts. <sup>4</sup>	Act. Rate (%)	Exp. Rate (%)	No. of Pts. <sup>4</sup>	Act. Rate (%)	Exp. Rate (%)	No. of Pts. <sup>4</sup>	No. <sup>1,5</sup> w/CFU	No. <sup>5</sup> Died	Act. Rate (%)	Exp. Rate (%)	Diff. (%)	p- <sup>2</sup> value
1 Month	70	95.7	92.3	34	91.2	93.5	104	104.0	6.0	94.2	92.7	1.5	0.55
1 Year	70	76.9	82.4	34	79.4	83.6	104	103.0	23.0	77.7	82.8	-5.1	0.16
Cond. <sup>3</sup> 3 Years	53	88.7	90.6				53	53.0	6.0	88.7	90.6	-1.9	0.63
3 Years <sup>3</sup>		68.2	74.6										

Notes: <sup>1</sup> No. with complete follow-up (CFU) is the total of the number of patients (grafts) whose status was known during the specified time interval.

<sup>2</sup> A p-value followed by an \* indicates that the difference is statistically significant at the 0.05 level.

<sup>3</sup> Conditional 3 year survival rates are the survival rates conditional on survival at 1 year. These are computed based on transplants between 1/1/88 and 4/30/92. Three year survival rates are computed by multiplying the 1 year and the conditional 3 year survival rates.

<sup>4</sup> The numbers of patients in Era 1 and Era 2 do not necessarily add up to the number of patients in the overall period, due to repeat transplants in different eras for some patients.

<sup>5</sup> No. w/CFU or No. Died may be fractional if patients received more than one transplant at the program.

Source: UNOS OPTN/Scientific Registry data.

Heart Transplants: January 1, 1988 - April 30, 1994  
Donor and Recipient Characteristics: Program and National Frequencies

Johns Hopkins Hospital - Baltimore MD  
Provider Number 210009 (MDJH)

		----- Program -----		--- National ---	
		Number	%	Number	%
Total Transplants and Percentages		105	100.0	12627	100.0
Donor Age	0-5	8	7.6	799	6.3
	6-10	3	2.9	274	2.2
	11-17	18	17.1	2029	16.1
	18-49	71	67.6	8923	70.7
	50-64	5	4.8	589	4.7
	65+	0	0.0	12	0.1
	Not Reported	0	0.0	1	0.0
Donor Gender	Female	29	27.6	3728	29.5
	Male	76	72.4	8899	70.5
Donor Race	White	80	76.2	10036	79.5
	Black	24	22.9	1263	10.0
	Hispanic	1	1.0	1143	9.1
	Asian	0	0.0	90	0.7
	Other	0	0.0	87	0.7
	Not Reported	0	0.0	8	0.1
Recipient Age	<1	7	6.7	549	4.3
	1-10	5	4.8	431	3.4
	11-17	1	1.0	358	2.8
	18-49	53	50.5	4493	35.6
	50-64	38	36.2	6373	50.5
	65+	1	1.0	423	3.3
Recipient Gender	Female	25	23.8	2761	21.9
	Male	80	76.2	9866	78.1
Recipient Race	White	92	87.6	10504	83.2
	Black	10	9.5	1206	9.6
	Hispanic	0	0.0	570	4.5
	Asian	0	0.0	125	1.0
	Other	3	2.9	216	1.7
	Not Reported	0	0.0	6	0.0

		----- Program -----		--- National ---	
		Number	%	Number	%
<b>Previous Heart Transplant</b>	No	98	93.3	12231	96.9
	Yes	7	6.7	344	2.7
	Not Reported	0	0.0	52	0.4
<b>On Ventilator at Transplant</b>	No	101	96.2	11892	94.2
	Yes	4	3.8	663	5.3
	Not Reported	0	0.0	72	0.6
<b>On VAD at Transplant</b>	No	103	98.1	12187	96.5
	Yes	2	1.9	366	2.9
	Not Reported	0	0.0	74	0.6
<b>On IABP at Transplant</b>	No	102	97.1	11754	93.1
	Yes	3	2.9	801	6.3
	Not Reported	0	0.0	72	0.6
<b>Diagnosis at Transplant</b>	Coronary Artery Disease	37	35.2	5222	41.4
	Cardiomyopathy	58	55.2	5779	45.8
	Eisenmenger's Syndrome/Congenital	9	8.6	933	7.4
	Valvular Heart Disease	1	1.0	476	3.8
	Other Diagnosis	0	0.0	183	1.4
	Not Reported	0	0.0	34	0.3
<b>Medical Condition at Transplant</b>	Not Hospitalized	63	60.0	5606	44.4
	Hospitalized	9	8.6	986	7.8
	In ICU	33	31.4	6019	47.7
	Not Reported	0	0.0	16	0.1
<b>Cold Ischemia Time</b>	Up to 2 hrs	16	15.2	3458	27.4
	> 2 - 2.5 hrs	21	20.0	2271	18.0
	> 2.5 - 3 hrs	16	15.2	2408	19.1
	> 3 - 3.5 hrs	24	22.9	1949	15.4
	> 3.5 hrs	28	26.7	2453	19.4
	Not Reported	0	0.0	88	0.7
<b>Year of Transplant</b>	1988	13	12.4	1649	13.1
	1989	18	17.1	1677	13.3
	1990	16	15.2	2071	16.4
	1991	18	17.1	2098	16.6
	1992	16	15.2	2145	17.0
	1993	19	18.1	2266	17.9
	1994	5	4.8	721	5.7

Source: UNOS OPTN/Scientific Registry data.



## Heart Transplants: January 1, 1988 - April 30, 1994

Survival Report for University of Maryland Medical System - Baltimore MD  
Provider Number 210002 (MDUM)Graft Survival

	Era 1: 1/1/88-4/30/92			Era 2: 5/1/92-4/30/94			Overall: 1/1/88-4/30/94						
Time Point	No. of TX	Act. Rate (%)	Exp. Rate (%)	No. of TX	Act. Rate (%)	Exp. Rate (%)	No. of TX	No. <sup>1</sup> w/CFU	No. Failed	Act. Rate (%)	Exp. Rate (%)	Diff. (%)	p- <sup>2</sup> value
1 Month	9	88.9	94.7	6	100.0	94.6	15	15	1	93.3	94.6	-1.3	0.82
1 Year	9	66.7	84.6	6	83.3	84.7	15	15	4	73.3	84.6	-11.3	0.22
Cond. <sup>3</sup> 3 Years	6	83.3	90.6				6	6	1	83.3	90.6	-7.3	0.54
3 Years <sup>3</sup>		55.6	76.7										

Patient Survival

	Era 1: 1/1/88-4/30/92			Era 2: 5/1/92-4/30/94			Overall: 1/1/88-4/30/94						
Time Point	No. of Pts. <sup>4</sup>	Act. Rate (%)	Exp. Rate (%)	No. of Pts. <sup>4</sup>	Act. Rate (%)	Exp. Rate (%)	No. of Pts. <sup>4</sup>	No. <sup>1,5</sup> w/CFU	No. <sup>5</sup> Died	Act. Rate (%)	Exp. Rate (%)	Diff. (%)	p- <sup>2</sup> value
1 Month	9	88.9	94.8	6	100.0	94.9	15	15.0	1.0	93.3	94.8	-1.5	0.79
1 Year	9	66.7	85.0	6	83.3	85.3	15	15.0	4.0	73.3	85.1	-11.8	0.20
Cond. <sup>3</sup> 3 Years	6	83.3	91.1				6	6.0	1.0	83.3	91.1	-7.7	0.51
3 Years <sup>3</sup>		55.6	77.4										

Notes: <sup>1</sup> No. with complete follow-up (CFU) is the total of the number of patients (grafts) whose status was known during the specified time interval.

<sup>2</sup> A p-value followed by an \* indicates that the difference is statistically significant at the 0.05 level.

<sup>3</sup> Conditional 3 year survival rates are the survival rates conditional on survival at 1 year. These are computed based on transplants between 1/1/88 and 4/30/92. Three year survival rates are computed by multiplying the 1 year and the conditional 3 year survival rates.

<sup>4</sup> The numbers of patients in Era 1 and Era 2 do not necessarily add up to the number of patients in the overall period, due to repeat transplants in different eras for some patients.

<sup>5</sup> No. w/CFU or No. Died may be fractional if patients received more than one transplant at the program.

Source: UNOS OPTN/Scientific Registry data.

**Heart Transplants: January 1, 1988 - April 30, 1994**  
**Donor and Recipient Characteristics: Program and National Frequencies**

**University of Maryland Medical System - Baltimore MD**  
**Provider Number 210002 (MDUM)**

		---- Program ----		--- National ---	
		Number	%	Number	%
<b>Total Transplants and Percentages</b>		<b>15</b>	<b>100.0</b>	<b>12627</b>	<b>100.0</b>
<b>Donor Age</b>	0-5	1	6.7	799	6.3
	6-10	0	0.0	274	2.2
	11-17	4	26.7	2029	16.1
	18-49	9	60.0	8923	70.7
	50-64	1	6.7	589	4.7
	65+	0	0.0	12	0.1
	Not Reported	0	0.0	1	0.0
<b>Donor Gender</b>	Female	3	20.0	3728	29.5
	Male	12	80.0	8899	70.5
<b>Donor Race</b>	White	10	66.7	10036	79.5
	Black	4	26.7	1263	10.0
	Hispanic	0	0.0	1143	9.1
	Asian	1	6.7	90	0.7
	Other	0	0.0	87	0.7
	Not Reported	0	0.0	8	0.1
<b>Recipient Age</b>	<1	0	0.0	549	4.3
	1-10	1	6.7	431	3.4
	11-17	2	13.3	358	2.8
	18-49	3	20.0	4493	35.6
	50-64	9	60.0	6373	50.5
	65+	0	0.0	423	3.3
<b>Recipient Gender</b>	Female	0	0.0	2761	21.9
	Male	15	100.0	9866	78.1
<b>Recipient Race</b>	White	9	60.0	10504	83.2
	Black	4	26.7	1206	9.6
	Hispanic	0	0.0	570	4.5
	Asian	0	0.0	125	1.0
	Other	2	13.3	216	1.7
	Not Reported	0	0.0	6	0.0

		----- Program -----		--- National ---	
		Number	%	Number	%
<b>Previous Heart Transplant</b>	No	15	100.0	12231	96.9
	Yes	0	0.0	344	2.7
	Not Reported	0	0.0	52	0.4
<b>On Ventilator at Transplant</b>	No	15	100.0	11892	94.2
	Yes	0	0.0	663	5.3
	Not Reported	0	0.0	72	0.6
<b>On VAD at Transplant</b>	No	15	100.0	12187	96.5
	Yes	0	0.0	366	2.9
	Not Reported	0	0.0	74	0.6
<b>On IABP at Transplant</b>	No	15	100.0	11754	93.1
	Yes	0	0.0	801	6.3
	Not Reported	0	0.0	72	0.6
<b>Diagnosis at Transplant</b>	Coronary Artery Disease	3	20.0	5222	41.4
	Cardiomyopathy	11	73.3	5779	45.8
	Eisenmenger's Syndrome/Congenital	0	0.0	933	7.4
	Valvular Heart Disease	0	0.0	476	3.8
	Other Diagnosis	1	6.7	183	1.4
	Not Reported	0	0.0	34	0.3
<b>Medical Condition at Transplant</b>	Not Hospitalized	6	40.0	5606	44.4
	Hospitalized	1	6.7	986	7.8
	In ICU	8	53.3	6019	47.7
	Not Reported	0	0.0	16	0.1
<b>Cold Ischemia Time</b>	Up to 2 hrs	4	26.7	3458	27.4
	> 2 - 2.5 hrs	7	46.7	2271	18.0
	> 2.5 - 3 hrs	3	20.0	2408	19.1
	> 3 - 3.5 hrs	0	0.0	1949	15.4
	> 3.5 hrs	1	6.7	2453	19.4
	Not Reported	0	0.0	88	0.7
<b>Year of Transplant</b>	1988	1	6.7	1649	13.1
	1989	1	6.7	1677	13.3
	1990	2	13.3	2071	16.4
	1991	3	20.0	2098	16.6
	1992	3	20.0	2145	17.0
	1993	4	26.7	2266	17.9
	1994	1	6.7	721	5.7

Source: UNOS OPTN/Scientific Registry data.

**Response From: University of Maryland Medical System  
22 South Greene Street, Baltimore, MD 21201  
Provider Number 210002 (MDUM)**

May 2, 1997

The UNOS survival statistics for heart transplantation for the time period 1/1/88 - 4/30/94 show an overall 1 year survival of 75% and a 3 year survival of 83.3%. These numbers are lower than the national survival statistics during that era, but the differences are not statistically significant. While these numbers do accurately reflect the cardiac transplant activity at the University of Maryland during that time period they do not reflect the current cardiac transplant program at the University of Maryland.

During the time period reported the program was modest in size, 3 different surgeons performed transplant procedures, and there was no transplant cardiologist. None of the personnel involved during that time period remain on the faculty or involved in transplantation for that matter.

A major institutional commitment was made to establishing thoracic transplant programs in 1995. This commitment was made in the form of funds to recruit new faculty, buy equipment and provide space for the establishment of a premier program. A new program was begun under the direction of Dr. John V. Conte recruited from Stanford University. Dr. Ronald Freudenberger was recruited from the Mt. Sinai School of Medicine to direct the transplant cardiology program and Dr. Jon Orens from the University of Michigan was recruited to direct the transplant pulmonology program.

Since their recruitment, the thoracic transplant program has grown resulting in the evaluation and transplantation of more patients in the last 18 months than in all previous years combined. There have been a total of 55 transplants, 21 hearts, 32 lungs and one heart-lung, performed by the new team. In addition to the recruitment of two additional surgeons, Drs. Joshua Sonett from the University of Pittsburgh and Michael Fiocco from the University of Maryland, a dedicated psychiatrist, social worker, physical therapist, dietitian and two coordinators have been added. Dedicated transplant anesthesia and infectious disease services have also been established to round out the thoracic transplant team.

Programs in mechanical assist devices and ventricular remodeling surgery were begun and the heart failure service was expanded to 4 cardiologists to further support the new thoracic transplant program.

John V. Conte, Jr., M.D.  
Assistant Professor of Surgery  
Director of Heart and Lung Transplantation



## Heart Transplants: January 1, 1988 - April 30, 1994

Survival Report for William Beaumont Hospital - Royal Oak MI  
Provider Number 230130 (MIBH)Graft Survival

	Era 1: 1/1/88-4/30/92			Era 2: 5/1/92-4/30/94			Overall: 1/1/88-4/30/94						
Time Point	No. of TX	Act. Rate (%)	Exp. Rate (%)	No. of TX	Act. Rate (%)	Exp. Rate (%)	No. of TX	No. <sup>1</sup> w/CFU	No. Failed	Act. Rate (%)	Exp. Rate (%)	Diff. (%)	p- <sup>2</sup> value
1 Month	5	60.0	93.3	3	100.0	95.5	8	8	2	75.0	94.1	-19.1	0.02*
1 Year	5	60.0	84.8	3	100.0	87.9	8	8	2	75.0	86.0	-11.0	0.37
Cond. <sup>3</sup> 3 Years	3	100.0	92.4				3	3	0	100.0	92.4	7.6	0.81
3 Years <sup>3</sup>		60.0	78.4										

Patient Survival

	Era 1: 1/1/88-4/30/92			Era 2: 5/1/92-4/30/94			Overall: 1/1/88-4/30/94						
Time Point	No. of Pts. <sup>4</sup>	Act. Rate (%)	Exp. Rate (%)	No. of Pts. <sup>4</sup>	Act. Rate (%)	Exp. Rate (%)	No. of Pts. <sup>4</sup>	No. <sup>1,5</sup> w/CFU	No. <sup>5</sup> Died	Act. Rate (%)	Exp. Rate (%)	Diff. (%)	p- <sup>2</sup> value
1 Month	5	60.0	93.7	3	100.0	95.7	8	8.0	2.0	75.0	94.4	-19.4	0.02*
1 Year	5	60.0	85.5	3	100.0	88.4	8	8.0	2.0	75.0	86.6	-11.6	0.33
Cond. <sup>3</sup> 3 Years	3	100.0	92.7				3	3.0	0.0	100.0	92.7	7.3	0.81
3 Years <sup>3</sup>		60.0	79.3										

Notes: <sup>1</sup> No. with complete follow-up (CFU) is the total of the number of patients (grafts) whose status was known during the specified time interval.

<sup>2</sup> A p-value followed by an \* indicates that the difference is statistically significant at the 0.05 level.

<sup>3</sup> Conditional 3 year survival rates are the survival rates conditional on survival at 1 year. These are computed based on transplants between 1/1/88 and 4/30/92. Three year survival rates are computed by multiplying the 1 year and the conditional 3 year survival rates.

<sup>4</sup> The numbers of patients in Era 1 and Era 2 do not necessarily add up to the number of patients in the overall period, due to repeat transplants in different eras for some patients.

<sup>5</sup> No. w/CFU or No. Died may be fractional if patients received more than one transplant at the program.

Source: UNOS OPTN/Scientific Registry data.

**Heart Transplants: January 1, 1988 - April 30, 1994**  
**Donor and Recipient Characteristics: Program and National Frequencies**

**William Beaumont Hospital - Royal Oak MI**  
**Provider Number 230130 (MIBH)**

		----- Program -----		--- National ---	
		Number	%	Number	%
<b>Total Transplants and Percentages</b>		<b>8</b>	<b>100.0</b>	<b>12627</b>	<b>100.0</b>
<b>Donor Age</b>	0-5	0	0.0	799	6.3
	6-10	0	0.0	274	2.2
	11-17	1	12.5	2029	16.1
	18-49	7	87.5	8923	70.7
	50-64	0	0.0	589	4.7
	65+	0	0.0	12	0.1
	Not Reported	0	0.0	1	0.0
<b>Donor Gender</b>	Female	1	12.5	3728	29.5
	Male	7	87.5	8899	70.5
<b>Donor Race</b>	White	8	100.0	10036	79.5
	Black	0	0.0	1263	10.0
	Hispanic	0	0.0	1143	9.1
	Asian	0	0.0	90	0.7
	Other	0	0.0	87	0.7
	Not Reported	0	0.0	8	0.1
<b>Recipient Age</b>	<1	0	0.0	549	4.3
	1-10	0	0.0	431	3.4
	11-17	0	0.0	358	2.8
	18-49	3	37.5	4493	35.6
	50-64	5	62.5	6373	50.5
	65+	0	0.0	423	3.3
<b>Recipient Gender</b>	Female	0	0.0	2761	21.9
	Male	8	100.0	9866	78.1
<b>Recipient Race</b>	White	8	100.0	10504	83.2
	Black	0	0.0	1206	9.6
	Hispanic	0	0.0	570	4.5
	Asian	0	0.0	125	1.0
	Other	0	0.0	216	1.7
	Not Reported	0	0.0	6	0.0

		----- Program -----		--- National ---	
		Number	%	Number	%
Previous Heart Transplant	No	8	100.0	12231	96.9
	Yes	0	0.0	344	2.7
	Not Reported	0	0.0	52	0.4
On Ventilator at Transplant	No	8	100.0	11892	94.2
	Yes	0	0.0	663	5.3
	Not Reported	0	0.0	72	0.6
On VAD at Transplant	No	8	100.0	12187	96.5
	Yes	0	0.0	366	2.9
	Not Reported	0	0.0	74	0.6
On IABP at Transplant	No	8	100.0	11754	93.1
	Yes	0	0.0	801	6.3
	Not Reported	0	0.0	72	0.6
Diagnosis at Transplant	Coronary Artery Disease	7	87.5	5222	41.4
	Cardiomyopathy	1	12.5	5779	45.8
	Eisenmenger's Syndrome Congenital	0	0.0	933	7.4
	Valvular Heart Disease	0	0.0	476	3.8
	Other Diagnosis	0	0.0	183	1.4
	Not Reported	0	0.0	34	0.3
Medical Condition at Transplant	Not Hospitalized	5	62.5	5606	44.4
	Hospitalized	1	12.5	986	7.8
	In ICU	2	25.0	6019	47.7
	Not Reported	0	0.0	16	0.1
Cold Ischemia Time	Up to 2 hrs	1	12.5	3458	27.4
	> 2 - 2.5 hrs	1	12.5	2271	18.0
	> 2.5 - 3 hrs	2	25.0	2408	19.1
	> 3 - 3.5 hrs	2	25.0	1949	15.4
	> 3.5 hrs	2	25.0	2453	19.4
	Not Reported	0	0.0	88	0.7
Year of Transplant	1988	0	0.0	1649	13.1
	1989	1	12.5	1677	13.3
	1990	3	37.5	2071	16.4
	1991	1	12.5	2098	16.6
	1992	2	25.0	2145	17.0
	1993	1	12.5	2266	17.9
	1994	0	0.0	721	5.7

Source: UNOS OPTN/Scientific Registry data.



## Heart Transplants: January 1, 1988 - April 30, 1994

Survival Report for Henry Ford Hospital - Detroit MI  
Provider Number 230053 (MIHF)Graft Survival

	Era 1: 1/1/88-4/30/92			Era 2: 5/1/92-4/30/94			Overall: 1/1/88-4/30/94						
Time Point	No. of TX	Act. Rate (%)	Exp. Rate (%)	No. of TX	Act. Rate (%)	Exp. Rate (%)	No. of TX	No. <sup>1</sup> w/CFU	No. Failed	Act. Rate (%)	Exp. Rate (%)	Diff. (%)	p- <sup>2</sup> value
1 Month	59	96.6	93.8	28	96.4	94.8	87	87	3	96.6	94.1	2.4	0.33
1 Year	59	93.2	84.8	28	85.7	86.5	87	87	8	90.8	85.3	5.5	0.14
Cond. <sup>3</sup> 3 Years	55	94.5	90.8				55	55	3	94.5	90.8	3.7	0.33
3 Years <sup>3</sup>		88.1	77.0										

Patient Survival

	Era 1: 1/1/88-4/30/92			Era 2: 5/1/92-4/30/94			Overall: 1/1/88-4/30/94						
Time Point	No. of Pts. <sup>4</sup>	Act. Rate (%)	Exp. Rate (%)	No. of Pts. <sup>4</sup>	Act. Rate (%)	Exp. Rate (%)	No. of Pts. <sup>4</sup>	No. <sup>1,5</sup> w/CFU	No. <sup>5</sup> Died	Act. Rate (%)	Exp. Rate (%)	Diff. (%)	p- <sup>2</sup> value
1 Month	58	96.6	94.2	28	96.4	95.1	86	86.0	3.0	96.5	94.5	2.0	0.41
1 Year	58	93.1	85.6	28	85.7	87.0	86	86.0	8.0	90.7	86.1	4.6	0.21
Cond. <sup>3</sup> 3 Years	54	94.4	91.3				54	54.0	3.0	94.4	91.3	3.1	0.41
3 Years <sup>3</sup>		87.9	78.2										

Notes: <sup>1</sup> No. with complete follow-up (CFU) is the total of the number of patients (grafts) whose status was known during the specified time interval.

<sup>2</sup> A p-value followed by an \* indicates that the difference is statistically significant at the 0.05 level.

<sup>3</sup> Conditional 3 year survival rates are the survival rates conditional on survival at 1 year. These are computed based on transplants between 1/1/88 and 4/30/92. Three year survival rates are computed by multiplying the 1 year and the conditional 3 year survival rates.

<sup>4</sup> The numbers of patients in Era 1 and Era 2 do not necessarily add up to the number of patients in the overall period, due to repeat transplants in different eras for some patients.

<sup>5</sup> No. w/CFU or No. Died may be fractional if patients received more than one transplant at the program.

Source: UNOS OPTN/Scientific Registry data.

**Heart Transplants: January 1, 1988 - April 30, 1994**  
**Donor and Recipient Characteristics: Program and National Frequencies**

**Henry Ford Hospital - Detroit MI**  
**Provider Number 230053 (MIHF)**

		----- Program -----		--- National ---	
		Number	%	Number	%
<b>Total Transplants and Percentages</b>		<b>87</b>	<b>100.0</b>	<b>12627</b>	<b>100.0</b>
<b>Donor Age</b>	0-5	0	0.0	799	6.3
	6-10	0	0.0	274	2.2
	11-17	16	18.4	2029	16.1
	18-49	69	79.3	8923	70.7
	50-64	2	2.3	589	4.7
	65+	0	0.0	12	0.1
	Not Reported	0	0.0	1	0.0
<b>Donor Gender</b>	Female	22	25.3	3728	29.5
	Male	65	74.7	8899	70.5
<b>Donor Race</b>	White	79	90.8	10036	79.5
	Black	8	9.2	1263	10.0
	Hispanic	0	0.0	1143	9.1
	Asian	0	0.0	90	0.7
	Other	0	0.0	87	0.7
	Not Reported	0	0.0	8	0.1
<b>Recipient Age</b>	<1	0	0.0	549	4.3
	1-10	0	0.0	431	3.4
	11-17	1	1.1	358	2.8
	18-49	41	47.1	4493	35.6
	50-64	45	51.7	6373	50.5
	65+	0	0.0	423	3.3
<b>Recipient Gender</b>	Female	18	20.7	2761	21.9
	Male	69	79.3	9866	78.1
<b>Recipient Race</b>	White	74	85.1	10504	83.2
	Black	10	11.5	1206	9.6
	Hispanic	0	0.0	570	4.5
	Asian	0	0.0	125	1.0
	Other	3	3.4	216	1.7
	Not Reported	0	0.0	6	0.0

		----- Program -----		--- National ---	
		Number	%	Number	%
<b>Previous Heart Transplant</b>	No	84	96.6	12231	96.9
	Yes	2	2.3	344	2.7
	Not Reported	1	1.1	52	0.4
<b>On Ventilator at Transplant</b>	No	83	95.4	11892	94.2
	Yes	1	1.1	663	5.3
	Not Reported	3	3.4	72	0.6
<b>On VAD at Transplant</b>	No	84	96.6	12187	96.5
	Yes	0	0.0	366	2.9
	Not Reported	3	3.4	74	0.6
<b>On IABP at Transplant</b>	No	82	94.3	11754	93.1
	Yes	2	2.3	801	6.3
	Not Reported	3	3.4	72	0.6
<b>Diagnosis at Transplant</b>	Coronary Artery Disease	41	47.1	5222	41.4
	Cardiomyopathy	46	52.9	5779	45.8
	Eisenmenger's Syndrome/Congenital	0	0.0	933	7.4
	Valvular Heart Disease	0	0.0	476	3.8
	Other Diagnosis	0	0.0	183	1.4
	Not Reported	0	0.0	34	0.3
<b>Medical Condition at Transplant</b>	Not Hospitalized	54	62.1	5606	44.4
	Hospitalized	5	5.7	986	7.8
	In ICU	28	32.2	6019	47.7
	Not Reported	0	0.0	16	0.1
<b>Cold Ischemia Time</b>	Up to 2 hrs	34	39.1	3458	27.4
	> 2 - 2.5 hrs	22	25.3	2271	18.0
	> 2.5 - 3 hrs	15	17.2	2408	19.1
	> 3 - 3.5 hrs	10	11.5	1949	15.4
	> 3.5 hrs	6	6.9	2453	19.4
	Not Reported	0	0.0	88	0.7
<b>Year of Transplant</b>	1988	21	24.1	1649	13.1
	1989	16	18.4	1677	13.3
	1990	10	11.5	2071	16.4
	1991	7	8.0	2098	16.6
	1992	11	12.6	2145	17.0
	1993	17	19.5	2266	17.9
	1994	5	5.7	721	5.7

Source: UNOS OPTN/Scientific Registry data.

## Heart Transplants: January 1, 1988 - April 30, 1994

Survival Report for Harper Hospital / Detroit Medical Center - Detroit MI  
Provider Number 230104 (MIHH)Graft Survival

	Era 1: 1/1/88-4/30/92			Era 2: 5/1/92-4/30/94			Overall: 1/1/88-4/30/94						
Time Point	No. of TX	Act. Rate (%)	Exp. Rate (%)	No. of TX	Act. Rate (%)	Exp. Rate (%)	No. of TX	No. w/CFU	No. Failed	Act. Rate (%)	Exp. Rate (%)	Diff. (%)	p- <sup>2</sup> value
1 Month	11	81.8	92.1	3	100.0	92.5	14	14	2	85.7	92.2	-6.5	0.36
1 Year	11	51.8	81.7	3	66.7	82.3	14	13	6	55.1	81.8	-26.7	0.01*
Cond. <sup>3</sup> 3 Years	5	100.0	88.6				5	5	0	100.0	88.6	11.4	0.65
3 Years <sup>3</sup>		51.8	72.4										

Patient Survival

	Era 1: 1/1/88-4/30/92			Era 2: 5/1/92-4/30/94			Overall: 1/1/88-4/30/94						
Time Point	No. of Pts. <sup>4</sup>	Act. Rate (%)	Exp. Rate (%)	No. of Pts. <sup>4</sup>	Act. Rate (%)	Exp. Rate (%)	No. of Pts. <sup>4</sup>	No. w/CFU	No. Died <sup>5</sup>	Act. Rate (%)	Exp. Rate (%)	Diff. (%)	p- <sup>2</sup> value
1 Month	11	81.8	92.4	3	100.0	92.9	14	14.0	2.0	85.7	92.5	-6.8	0.33
1 Year	11	51.8	82.4	3	66.7	83.1	14	13.0	6.0	55.1	82.6	-27.4	<0.01*
Cond. <sup>3</sup> 3 Years	5	100.0	89.2				5	5.0	0.0	100.0	89.2	10.8	0.66
3 Years <sup>3</sup>		51.8	73.5										

Notes: <sup>1</sup> No. with complete follow-up (CFU) is the total of the number of patients (grafts) whose status was known during the specified time interval.

<sup>2</sup> A p-value followed by an \* indicates that the difference is statistically significant at the 0.05 level.

<sup>3</sup> Conditional 3 year survival rates are the survival rates conditional on survival at 1 year. These are computed based on transplants between 1/1/88 and 4/30/92. Three year survival rates are computed by multiplying the 1 year and the conditional 3 year survival rates.

<sup>4</sup> The numbers of patients in Era 1 and Era 2 do not necessarily add up to the number of patients in the overall period, due to repeat transplants in different eras for some patients.

<sup>5</sup> No. w/CFU or No. Died may be fractional if patients received more than one transplant at the program.

Source: UNOS OPTN/Scientific Registry data.

**Heart Transplants: January 1, 1988 - April 30, 1994**  
**Donor and Recipient Characteristics: Program and National Frequencies**

**Harper Hospital / Detroit Medical Center - Detroit MI**  
**Provider Number 230104 (MIHH)**

		----- Program -----		--- National ---	
		Number	%	Number	%
<b>Total Transplants and Percentages</b>		<b>14</b>	<b>100.0</b>	<b>12627</b>	<b>100.0</b>
<b>Donor Age</b>	0-5	0	0.0	799	6.3
	6-10	0	0.0	274	2.2
	11-17	4	28.6	2029	16.1
	18-49	9	64.3	8923	70.7
	50-64	1	7.1	589	4.7
	65+	0	0.0	12	0.1
	Not Reported	0	0.0	1	0.0
<b>Donor Gender</b>	Female	7	50.0	3728	29.5
	Male	7	50.0	8899	70.5
<b>Donor Race</b>	White	13	92.9	10036	79.5
	Black	0	0.0	1263	10.0
	Hispanic	1	7.1	1143	9.1
	Asian	0	0.0	90	0.7
	Other	0	0.0	87	0.7
	Not Reported	0	0.0	8	0.1
<b>Recipient Age</b>	<1	0	0.0	549	4.3
	1-10	0	0.0	431	3.4
	11-17	0	0.0	358	2.8
	18-49	5	35.7	4493	35.6
	50-64	8	57.1	6373	50.5
	65+	1	7.1	423	3.3
<b>Recipient Gender</b>	Female	3	21.4	2761	21.9
	Male	11	78.6	9866	78.1
<b>Recipient Race</b>	White	9	64.3	10504	83.2
	Black	3	21.4	1206	9.6
	Hispanic	0	0.0	570	4.5
	Asian	0	0.0	125	1.0
	Other	2	14.3	216	1.7
	Not Reported	0	0.0	6	0.0

		----- Program -----		--- National ---	
		Number	%	Number	%
Previous Heart Transplant	No	14	100.0	12231	96.9
	Yes	0	0.0	344	2.7
	Not Reported	0	0.0	52	0.4
On Ventilator at Transplant	No	14	100.0	11892	94.2
	Yes	0	0.0	663	5.3
	Not Reported	0	0.0	72	0.6
On VAD at Transplant	No	14	100.0	12187	96.5
	Yes	0	0.0	366	2.9
	Not Reported	0	0.0	74	0.6
On IABP at Transplant	No	14	100.0	11754	93.1
	Yes	0	0.0	801	6.3
	Not Reported	0	0.0	72	0.6
Diagnosis at Transplant	Coronary Artery Disease	4	28.6	5222	41.4
	Cardiomyopathy	9	64.3	5779	45.8
	Eisenmenger's Syndrome/Congenital	0	0.0	933	7.4
	Valvular Heart Disease	1	7.1	476	3.8
	Other Diagnosis	0	0.0	183	1.4
	Not Reported	0	0.0	34	0.3
Medical Condition at Transplant	Not Hospitalized	6	42.9	5606	44.4
	Hospitalized	4	28.6	986	7.8
	In ICU	4	28.6	6019	47.7
	Not Reported	0	0.0	16	0.1
Cold Ischemia Time	Up to 2 hrs	2	14.3	3458	27.4
	> 2 - 2.5 hrs	1	7.1	2271	18.0
	> 2.5 - 3 hrs	1	7.1	2408	19.1
	> 3 - 3.5 hrs	3	21.4	1949	15.4
	> 3.5 hrs	7	50.0	2453	19.4
	Not Reported	0	0.0	88	0.7
Year of Transplant	1988	0	0.0	1649	13.1
	1989	2	14.3	1677	13.3
	1990	5	35.7	2071	16.4
	1991	3	21.4	2098	16.6
	1992	4	28.6	2145	17.0
	1993	0	0.0	2266	17.9
	1994	0	0.0	721	5.7

Source: UNOS OPTN/Scientific Registry data.

## Heart Transplants: January 1, 1988 - April 30, 1994

Survival Report for University of Michigan Medical Center - Ann Arbor MI  
Provider Number 230046 (MIUM)Graft Survival

	Era 1: 1/1/88-4/30/92			Era 2: 5/1/92-4/30/94			Overall: 1/1/88-4/30/94						
Time Point	No. of TX	Act. Rate (%)	Exp. Rate (%)	No. of TX	Act. Rate (%)	Exp. Rate (%)	No. of TX	No. <sup>1</sup> w/CFU	No. Failed	Act. Rate (%)	Exp. Rate (%)	Diff. (%)	p- <sup>2</sup> value
1 Month	133	91.7	91.7	47	91.5	93.1	180	180	15	91.7	92.0	-0.4	0.86
1 Year	133	82.0	81.8	47	83.0	84.8	180	179	32	82.2	82.6	-0.4	0.89
Cond. <sup>3</sup> 3 Years	109	93.6	90.5				109	109	7	93.6	90.5	3.1	0.26
3 Years <sup>3</sup>		76.7	74.0										

Patient Survival

	Era 1: 1/1/88-4/30/92			Era 2: 5/1/92-4/30/94			Overall: 1/1/88-4/30/94						
Time Point	No. of Pts. <sup>4</sup>	Act. Rate (%)	Exp. Rate (%)	No. of Pts. <sup>4</sup>	Act. Rate (%)	Exp. Rate (%)	No. of Pts. <sup>4</sup>	No. <sup>1,5</sup> w/CFU	No. <sup>5</sup> Died	Act. Rate (%)	Exp. Rate (%)	Diff. (%)	p- <sup>2</sup> value
1 Month	133	91.7	92.1	47	91.5	93.5	180	180.0	15.0	91.7	92.5	-0.8	0.68
1 Year	133	82.0	82.6	47	83.0	85.5	180	179.0	32.0	82.2	83.4	-1.1	0.67
Cond. <sup>3</sup> 3 Years	109	93.6	90.9				109	109.0	7.0	93.6	90.9	2.7	0.33
3 Years <sup>3</sup>		76.7	75.1										

Notes: <sup>1</sup> No. with complete follow-up (CFU) is the total of the number of patients (grafts) whose status was known during the specified time interval.

<sup>2</sup> A p-value followed by an \* indicates that the difference is statistically significant at the 0.05 level.

<sup>3</sup> Conditional 3 year survival rates are the survival rates conditional on survival at 1 year. These are computed based on transplants between 1/1/88 and 4/30/92. Three year survival rates are computed by multiplying the 1 year and the conditional 3 year survival rates.

<sup>4</sup> The numbers of patients in Era 1 and Era 2 do not necessarily add up to the number of patients in the overall period, due to repeat transplants in different eras for some patients.

<sup>5</sup> No. w/CFU or No. Died may be fractional if patients received more than one transplant at the program.

Source: UNOS OPTN/Scientific Registry data.



**Heart Transplants: January 1, 1988 - April 30, 1994**  
**Donor and Recipient Characteristics: Program and National Frequencies**

**University of Michigan Medical Center - Ann Arbor MI**  
**Provider Number 230046 (MIUM)**

		----- Program -----		--- National ---	
		Number	%	Number	%
<b>Total Transplants and Percentages</b>		<b>180</b>	<b>100.0</b>	<b>12627</b>	<b>100.0</b>
<b>Donor Age</b>	0-5	8	4.4	799	6.3
	6-10	7	3.9	274	2.2
	11-17	33	18.3	2029	16.1
	18-49	127	70.6	8923	70.7
	50-64	5	2.8	589	4.7
	65+	0	0.0	12	0.1
	Not Reported	0	0.0	1	0.0
<b>Donor Gender</b>	Female	50	27.8	3728	29.5
	Male	130	72.2	8899	70.5
<b>Donor Race</b>	White	152	84.4	10036	79.5
	Black	20	11.1	1263	10.0
	Hispanic	5	2.8	1143	9.1
	Asian	0	0.0	90	0.7
	Other	3	1.7	87	0.7
	Not Reported	0	0.0	8	0.1
<b>Recipient Age</b>	<1	2	1.1	549	4.3
	1-10	9	5.0	431	3.4
	11-17	15	8.3	358	2.8
	18-49	66	36.7	4493	35.6
	50-64	87	48.3	6373	50.5
	65+	1	0.6	423	3.3
<b>Recipient Gender</b>	Female	47	26.1	2761	21.9
	Male	133	73.9	9866	78.1
<b>Recipient Race</b>	White	159	88.3	10504	83.2
	Black	18	10.0	1206	9.6
	Hispanic	2	1.1	570	4.5
	Asian	1	0.6	125	1.0
	Other	0	0.0	216	1.7
	Not Reported	0	0.0	6	0.0

		----- Program -----		--- National ---	
		Number	%	Number	%
<b>Previous Heart Transplant</b>	No	177	98.3	12231	96.9
	Yes	1	0.6	344	2.7
	Not Reported	2	1.1	52	0.4
<b>On Ventilator at Transplant</b>	No	158	87.8	11892	94.2
	Yes	15	8.3	663	5.3
	Not Reported	7	3.9	72	0.6
<b>On VAD at Transplant</b>	No	173	96.1	12187	96.5
	Yes	0	0.0	366	2.9
	Not Reported	7	3.9	74	0.6
<b>On IABP at Transplant</b>	No	166	92.2	11754	93.1
	Yes	7	3.9	801	6.3
	Not Reported	7	3.9	72	0.6
<b>Diagnosis at Transplant</b>	Coronary Artery Disease	68	37.8	5222	41.4
	Cardiomyopathy	87	48.3	5779	45.8
	Eisenmenger's Syndrome/Congenital	13	7.2	933	7.4
	Valvular Heart Disease	2	1.1	476	3.8
	Other Diagnosis	10	5.6	183	1.4
	Not Reported	0	0.0	34	0.3
<b>Medical Condition at Transplant</b>	Not Hospitalized	100	55.6	5606	44.4
	Hospitalized	30	16.7	986	7.8
	In ICU	50	27.8	6019	47.7
	Not Reported	0	0.0	16	0.1
<b>Cold Ischemia Time</b>	Up to 2 hrs	23	12.8	3458	27.4
	> 2 - 2.5 hrs	26	14.4	2271	18.0
	> 2.5 - 3 hrs	34	18.9	2408	19.1
	> 3 - 3.5 hrs	31	17.2	1949	15.4
	> 3.5 hrs	59	32.8	2453	19.4
	Not Reported	7	3.9	88	0.7
<b>Year of Transplant</b>	1988	30	16.7	1649	13.1
	1989	29	16.1	1677	13.3
	1990	37	20.6	2071	16.4
	1991	29	16.1	2098	16.6
	1992	20	11.1	2145	17.0
	1993	29	16.1	2266	17.9
	1994	6	3.3	721	5.7

Source: UNOS OPTN/Scientific Registry data.

## Heart Transplants: January 1, 1988 - April 30, 1994

Survival Report for Abbott-Northwestern Hospital - Minneapolis MN  
Provider Number 240906 (MNAN)Graft Survival

	Era 1: 1/1/88-4/30/92			Era 2: 5/1/92-4/30/94			Overall: 1/1/88-4/30/94						
Time Point	No. of TX	Act. Rate (%)	Exp. Rate (%)	No. of TX	Act. Rate (%)	Exp. Rate (%)	No. of TX	No. <sup>1</sup> w/CFU	No. Failed	Act. Rate (%)	Exp. Rate (%)	Diff. (%)	p- <sup>2</sup> value
1 Month	91	91.2	92.2	35	97.1	92.0	126	126	9	92.9	92.2	0.7	0.77
1 Year	91	85.7	82.6	35	71.4	83.7	126	126	23	81.7	82.9	-1.1	0.73
Cond. <sup>3</sup> 3 Years	78	88.4	90.6				78	77	9	88.4	90.6	-2.2	0.49
3 Years <sup>3</sup>		75.8	74.9										

Patient Survival

	Era 1: 1/1/88-4/30/92			Era 2: 5/1/92-4/30/94			Overall: 1/1/88-4/30/94						
Time Point	No. of Pts. <sup>4</sup>	Act. Rate (%)	Exp. Rate (%)	No. of Pts. <sup>4</sup>	Act. Rate (%)	Exp. Rate (%)	No. of Pts. <sup>4</sup>	No. <sup>1,5</sup> w/CFU	No. <sup>5</sup> Died	Act. Rate (%)	Exp. Rate (%)	Diff. (%)	p- <sup>2</sup> value
1 Month	90	92.2	92.7	35	97.1	92.5	125	125.0	8.0	93.6	92.6	1.0	0.67
1 Year	90	86.7	83.3	35	71.4	84.3	125	125.0	22.0	82.4	83.6	-1.2	0.72
Cond. <sup>3</sup> 3 Years	78	88.4	91.2				78	77.0	9.0	88.4	91.2	-2.8	0.38
3 Years <sup>3</sup>		76.6	76.0										

Notes: <sup>1</sup> No. with complete follow-up (CFU) is the total of the number of patients (grafts) whose status was known during the specified time interval.

<sup>2</sup> A p-value followed by an \* indicates that the difference is statistically significant at the 0.05 level.

<sup>3</sup> Conditional 3 year survival rates are the survival rates conditional on survival at 1 year. These are computed based on transplants between 1/1/88 and 4/30/92. Three year survival rates are computed by multiplying the 1 year and the conditional 3 year survival rates.

<sup>4</sup> The numbers of patients in Era 1 and Era 2 do not necessarily add up to the number of patients in the overall period, due to repeat transplants in different eras for some patients.

<sup>5</sup> No. w/CFU or No. Died may be fractional if patients received more than one transplant at the program.

Source: UNOS OPTN/Scientific Registry data.

**Heart Transplants: January 1, 1988 - April 30, 1994**  
**Donor and Recipient Characteristics: Program and National Frequencies**

**Abbott-Northwestern Hospital - Minneapolis MN**  
**Provider Number 240906 (MNAN)**

		----- Program -----		--- National ---	
		Number	%	Number	%
<b>Total Transplants and Percentages</b>		<b>126</b>	<b>100.0</b>	<b>12627</b>	<b>100.0</b>
<b>Donor Age</b>	0-5	0	0.0	799	6.3
	6-10	2	1.6	274	2.2
	11-17	15	11.9	2029	16.1
	18-49	100	79.4	8923	70.7
	50-64	9	7.1	589	4.7
	65+	0	0.0	12	0.1
	Not Reported	0	0.0	1	0.0
<b>Donor Gender</b>	Female	39	31.0	3728	29.5
	Male	87	69.0	8899	70.5
<b>Donor Race</b>	White	122	96.8	10036	79.5
	Black	1	0.8	1263	10.0
	Hispanic	1	0.8	1143	9.1
	Asian	0	0.0	90	0.7
	Other	2	1.6	87	0.7
	Not Reported	0	0.0	8	0.1
<b>Recipient Age</b>	<1	0	0.0	549	4.3
	1-10	2	1.6	431	3.4
	11-17	4	3.2	358	2.8
	18-49	36	28.6	4493	35.6
	50-64	79	62.7	6373	50.5
	65+	5	4.0	423	3.3
<b>Recipient Gender</b>	Female	25	19.8	2761	21.9
	Male	101	80.2	9866	78.1
<b>Recipient Race</b>	White	122	96.8	10504	83.2
	Black	2	1.6	1206	9.6
	Hispanic	0	0.0	570	4.5
	Asian	0	0.0	125	1.0
	Other	2	1.6	216	1.7
	Not Reported	0	0.0	6	0.0

		----- Program -----		--- National ---	
		Number	%	Number	%
<b>Previous Heart Transplant</b>	No	125	99.2	12231	96.9
	Yes	1	0.8	344	2.7
	Not Reported	0	0.0	52	0.4
<b>On Ventilator at Transplant</b>	No	125	99.2	11892	94.2
	Yes	1	0.8	663	5.3
	Not Reported	0	0.0	72	0.6
<b>On VAD at Transplant</b>	No	120	95.2	12187	96.5
	Yes	6	4.8	366	2.9
	Not Reported	0	0.0	74	0.6
<b>On IABP at Transplant</b>	No	121	96.0	11754	93.1
	Yes	5	4.0	801	6.3
	Not Reported	0	0.0	72	0.6
<b>Diagnosis at Transplant</b>	Coronary Artery Disease	66	52.4	5222	41.4
	Cardiomyopathy	48	38.1	5779	45.8
	Eisenmenger's Syndrome/Congenital	4	3.2	933	7.4
	Valvular Heart Disease	6	4.8	476	3.8
	Other Diagnosis	2	1.6	183	1.4
	Not Reported	0	0.0	34	0.3
<b>Medical Condition at Transplant</b>	Not Hospitalized	75	59.5	5606	44.4
	Hospitalized	5	4.0	986	7.8
	In ICU	46	36.5	6019	47.7
	Not Reported	0	0.0	16	0.1
<b>Cold Ischemia Time</b>	Up to 2 hrs	46	36.5	3458	27.4
	> 2 - 2.5 hrs	17	13.5	2271	18.0
	> 2.5 - 3 hrs	30	23.8	2408	19.1
	> 3 - 3.5 hrs	20	15.9	1949	15.4
	> 3.5 hrs	13	10.3	2453	19.4
	Not Reported	0	0.0	88	0.7
<b>Year of Transplant</b>	1988	28	22.2	1649	13.1
	1989	26	20.6	1677	13.3
	1990	19	15.1	2071	16.4
	1991	17	13.5	2098	16.6
	1992	13	10.3	2145	17.0
	1993	20	15.9	2266	17.9
	1994	3	2.4	721	5.7

Source: UNOS OPTN/Scientific Registry data.

## Heart Transplants: January 1, 1988 - April 30, 1994

Survival Report for St Mary's Hospital - Rochester MN  
Provider Number 240010 (MNSM)Graft Survival

	Era 1: 1/1/88-4/30/92			Era 2: 5/1/92-4/30/94			Overall: 1/1/88-4/30/94						
Time Point	No. of TX	Act. Rate (%)	Exp. Rate (%)	No. of TX	Act. Rate (%)	Exp. Rate (%)	No. of TX	No. <sup>1</sup> w/CFU	No. Failed	Act. Rate (%)	Exp. Rate (%)	Diff. (%)	p- <sup>2</sup> value
1 Month	35	97.1	93.3	37	97.3	92.3	72	72	2	97.2	92.8	4.4	0.14
1 Year	35	94.3	84.5	37	97.3	84.1	72	72	3	95.8	84.3	11.6	<0.01*
Cond. <sup>3</sup> 3 Years	33	93.9	90.9				33	33	2	93.9	90.9	3.1	0.54
3 Years <sup>3</sup>		88.6	76.8										

Patient Survival

	Era 1: 1/1/88-4/30/92			Era 2: 5/1/92-4/30/94			Overall: 1/1/88-4/30/94						
Time Point	No. of Pts. <sup>4</sup>	Act. Rate (%)	Exp. Rate (%)	No. of Pts. <sup>4</sup>	Act. Rate (%)	Exp. Rate (%)	No. of Pts. <sup>4</sup>	No. <sup>1,5</sup> w/CFU	No. <sup>5</sup> Died	Act. Rate (%)	Exp. Rate (%)	Diff. (%)	p- <sup>2</sup> value
1 Month	35	97.1	93.7	37	97.3	92.8	72	72.0	2.0	97.2	93.2	4.0	0.17
1 Year	35	94.3	85.1	37	97.3	84.5	72	72.0	3.0	95.8	84.8	11.0	<0.01*
Cond. <sup>3</sup> 3 Years	33	93.9	91.3				33	33.0	2.0	93.9	91.3	2.6	0.59
3 Years <sup>3</sup>		88.6	77.8										

Notes: <sup>1</sup> No. with complete follow-up (CFU) is the total of the number of patients (grafts) whose status was known during the specified time interval.

<sup>2</sup> A p-value followed by an \* indicates that the difference is statistically significant at the 0.05 level.

<sup>3</sup> Conditional 3 year survival rates are the survival rates conditional on survival at 1 year. These are computed based on transplants between 1/1/88 and 4/30/92. Three year survival rates are computed by multiplying the 1 year and the conditional 3 year survival rates.

<sup>4</sup> The numbers of patients in Era 1 and Era 2 do not necessarily add up to the number of patients in the overall period, due to repeat transplants in different eras for some patients.

<sup>5</sup> No. w/CFU or No. Died may be fractional if patients received more than one transplant at the program.

Source: UNOS OPTN/Scientific Registry data.

**Heart Transplants: January 1, 1988 - April 30, 1994**  
**Donor and Recipient Characteristics: Program and National Frequencies**

**St Mary's Hospital - Rochester MN**  
**Provider Number 240010 (MNSM)**

		----- Program -----		--- National ---	
		Number	%	Number	%
<b>Total Transplants and Percentages</b>		<b>72</b>	<b>100.0</b>	<b>12627</b>	<b>100.0</b>
<b>Donor Age</b>	0-5	0	0.0	799	6.3
	6-10	0	0.0	274	2.2
	11-17	14	19.4	2029	16.1
	18-49	52	72.2	8923	70.7
	50-64	4	5.6	589	4.7
	65+	2	2.8	12	0.1
	Not Reported	0	0.0	1	0.0
<b>Donor Gender</b>	Female	23	31.9	3728	29.5
	Male	49	68.1	8899	70.5
<b>Donor Race</b>	White	71	98.6	10036	79.5
	Black	0	0.0	1263	10.0
	Hispanic	0	0.0	1143	9.1
	Asian	0	0.0	90	0.7
	Other	1	1.4	87	0.7
	Not Reported	0	0.0	8	0.1
<b>Recipient Age</b>	<1	0	0.0	549	4.3
	1-10	1	1.4	431	3.4
	11-17	3	4.2	358	2.8
	18-49	26	36.1	4493	35.6
	50-64	39	54.2	6373	50.5
	65+	3	4.2	423	3.3
<b>Recipient Gender</b>	Female	13	18.1	2761	21.9
	Male	59	81.9	9866	78.1
<b>Recipient Race</b>	White	68	94.4	10504	83.2
	Black	0	0.0	1206	9.6
	Hispanic	2	2.8	570	4.5
	Asian	0	0.0	125	1.0
	Other	2	2.8	216	1.7
	Not Reported	0	0.0	6	0.0



		----- Program -----		--- National ---	
		Number	%	Number	%
<b>Previous Heart Transplant</b>	No	72	100.0	12231	96.9
	Yes	0	0.0	344	2.7
	Not Reported	0	0.0	52	0.4
<b>On Ventilator at Transplant</b>	No	72	100.0	11892	94.2
	Yes	0	0.0	663	5.3
	Not Reported	0	0.0	72	0.6
<b>On VAD at Transplant</b>	No	72	100.0	12187	96.5
	Yes	0	0.0	366	2.9
	Not Reported	0	0.0	74	0.6
<b>On IABP at Transplant</b>	No	72	100.0	11754	93.1
	Yes	0	0.0	801	6.3
	Not Reported	0	0.0	72	0.6
<b>Diagnosis at Transplant</b>	Coronary Artery Disease	19	26.4	5222	41.4
	Cardiomyopathy	43	59.7	5779	45.8
	Eisenmenger's Syndrome/Congenital	4	5.6	933	7.4
	Valvular Heart Disease	5	6.9	476	3.8
	Other Diagnosis	1	1.4	183	1.4
	Not Reported	0	0.0	34	0.3
<b>Medical Condition at Transplant</b>	Not Hospitalized	40	55.6	5606	44.4
	Hospitalized	0	0.0	986	7.8
	In ICU	32	44.4	6019	47.7
	Not Reported	0	0.0	16	0.1
<b>Cold Ischemia Time</b>	Up to 2 hrs	27	37.5	3458	27.4
	> 2 - 2.5 hrs	7	9.7	2271	18.0
	> 2.5 - 3 hrs	19	26.4	2408	19.1
	> 3 - 3.5 hrs	10	13.9	1949	15.4
	> 3.5 hrs	9	12.5	2453	19.4
	Not Reported	0	0.0	88	0.7
<b>Year of Transplant</b>	1988	3	4.2	1649	13.1
	1989	6	8.3	1677	13.3
	1990	7	9.7	2071	16.4
	1991	11	15.3	2098	16.6
	1992	18	25.0	2145	17.0
	1993	16	22.2	2266	17.9
	1994	11	15.3	721	5.7

Source: UNOS OPTN/Scientific Registry data.

**Response From: St. Mary's Hospital  
1216 2nd Street, Rochester, MN 55902  
Provider Number 240010 (MNSM)**

May 8, 1997

The current one- and five-year Kaplan-Meier actuarial survival for all patients receiving heart transplants at Mayo Clinic/Saint Mary's Hospital since the initiation of the program on June 1, 1988 is 94.9 and 87.3 percent, respectively.

Mayo Medical Center is pleased that the current published survival statistics for the study period of the 1997 Center Specific report show that our results are significantly higher than the expected rate. These results reflect the multi-disciplinary approach to patient care at Mayo Medical Center, a stable cardiothoracic transplant group, and a continuing institutional commitment to the provision of high quality, cost-effective care.

Christopher G. A. McGregor, M.B., F.R.C.S.  
Director, Cardiothoracic Transplantation

A handwritten signature in black ink, appearing to read "C. McGregor", with a stylized flourish at the end.

## Heart Transplants: January 1, 1988 - April 30, 1994

Survival Report for Fairview University Medical Center - Minneapolis MN  
Provider Number 240049 (MNUM)Graft Survival

	Era 1: 1/1/88-4/30/92			Era 2: 5/1/92-4/30/94			Overall: 1/1/88-4/30/94						
Time Point	No. of TX	Act. Rate (%)	Exp. Rate (%)	No. of TX	Act. Rate (%)	Exp. Rate (%)	No. of TX	No. <sup>1</sup> w/CFU	No. Failed	Act. Rate (%)	Exp. Rate (%)	Diff. (%)	p- <sup>2</sup> value
1 Month	98	93.9	91.6	50	90.0	91.6	148	148	11	92.6	91.6	1.0	0.67
1 Year	98	88.8	82.2	50	80.0	83.0	148	148	21	85.8	82.4	3.4	0.27
Cond. <sup>3</sup> 3 Years	87	93.1	90.7				87	86	6	93.1	90.7	2.4	0.44
3 Years <sup>3</sup>		82.6	74.6										

Patient Survival

	Era 1: 1/1/88-4/30/92			Era 2: 5/1/92-4/30/94			Overall: 1/1/88-4/30/94						
Time Point	No. of Pts. <sup>4</sup>	Act. Rate (%)	Exp. Rate (%)	No. of Pts. <sup>4</sup>	Act. Rate (%)	Exp. Rate (%)	No. of Pts. <sup>4</sup>	No. <sup>1,5</sup> w/CFU	No. <sup>5</sup> Died	Act. Rate (%)	Exp. Rate (%)	Diff. (%)	p- <sup>2</sup> value
1 Month	97	93.8	92.0	50	90.0	92.1	147	147.0	11.0	92.5	92.1	0.4	0.84
1 Year	97	88.7	83.0	50	80.0	83.7	147	147.0	21.0	85.7	83.3	2.5	0.41
Cond. <sup>3</sup> 3 Years	86	94.8	91.2				86	85.0	4.5	94.8	91.2	3.6	0.24
3 Years <sup>3</sup>		84.0	75.7										

Notes: <sup>1</sup> No. with complete follow-up (CFU) is the total of the number of patients (grafts) whose status was known during the specified time interval.

<sup>2</sup> A p-value followed by an \* indicates that the difference is statistically significant at the 0.05 level.

<sup>3</sup> Conditional 3 year survival rates are the survival rates conditional on survival at 1 year. These are computed based on transplants between 1/1/88 and 4/30/92. Three year survival rates are computed by multiplying the 1 year and the conditional 3 year survival rates.

<sup>4</sup> The numbers of patients in Era 1 and Era 2 do not necessarily add up to the number of patients in the overall period, due to repeat transplants in different eras for some patients.

<sup>5</sup> No. w/CFU or No. Died may be fractional if patients received more than one transplant at the program.

Source: UNOS OPTN/Scientific Registry data.

**Heart Transplants: January 1, 1988 - April 30, 1994**  
**Donor and Recipient Characteristics: Program and National Frequencies**

**Fairview University Medical Center - Minneapolis MN**  
**Provider Number 240049 (MNUM)**

		----- Program -----		--- National ---	
		Number	%	Number	%
<b>Total Transplants and Percentages</b>		<b>148</b>	<b>100.0</b>	<b>12627</b>	<b>100.0</b>
<b>Donor Age</b>	0-5	10	6.8	799	6.3
	6-10	10	6.8	274	2.2
	11-17	23	15.5	2029	16.1
	18-49	100	67.6	8923	70.7
	50-64	5	3.4	589	4.7
	65+	0	0.0	12	0.1
	Not Reported	0	0.0	1	0.0
<b>Donor Gender</b>	Female	57	38.5	3728	29.5
	Male	91	61.5	8899	70.5
<b>Donor Race</b>	White	141	95.3	10036	79.5
	Black	3	2.0	1263	10.0
	Hispanic	3	2.0	1143	9.1
	Asian	0	0.0	90	0.7
	Other	1	0.7	87	0.7
	Not Reported	0	0.0	8	0.1
<b>Recipient Age</b>	<1	2	1.4	549	4.3
	1-10	11	7.4	431	3.4
	11-17	9	6.1	358	2.8
	18-49	57	38.5	4493	35.6
	50-64	65	43.9	6373	50.5
	65+	4	2.7	423	3.3
<b>Recipient Gender</b>	Female	42	28.4	2761	21.9
	Male	106	71.6	9866	78.1
<b>Recipient Race</b>	White	135	91.2	10504	83.2
	Black	7	4.7	1206	9.6
	Hispanic	2	1.4	570	4.5
	Asian	1	0.7	125	1.0
	Other	3	2.0	216	1.7
	Not Reported	0	0.0	6	0.0

		----- Program -----		--- National ---	
		Number	%	Number	%
<b>Previous Heart Transplant</b>	No	146	98.6	12231	96.9
	Yes	2	1.4	344	2.7
	Not Reported	0	0.0	52	0.4
<b>On Ventilator at Transplant</b>	No	140	94.6	11892	94.2
	Yes	7	4.7	663	5.3
	Not Reported	1	0.7	72	0.6
<b>On VAD at Transplant</b>	No	144	97.3	12187	96.5
	Yes	3	2.0	366	2.9
	Not Reported	1	0.7	74	0.6
<b>On IABP at Transplant</b>	No	135	91.2	11754	93.1
	Yes	12	8.1	801	6.3
	Not Reported	1	0.7	72	0.6
<b>Diagnosis at Transplant</b>	Coronary Artery Disease	59	39.9	5222	41.4
	Cardiomyopathy	71	48.0	5779	45.8
	Eisenmenger's Syndrome/Congenital	13	8.8	933	7.4
	Valvular Heart Disease	4	2.7	476	3.8
	Other Diagnosis	1	0.7	183	1.4
	Not Reported	0	0.0	34	0.3
<b>Medical Condition at Transplant</b>	Not Hospitalized	79	53.4	5606	44.4
	Hospitalized	11	7.4	986	7.8
	In ICU	58	39.2	6019	47.7
	Not Reported	0	0.0	16	0.1
<b>Cold Ischemia Time</b>	Up to 2 hrs	15	10.1	3458	27.4
	> 2 - 2.5 hrs	29	19.6	2271	18.0
	> 2.5 - 3 hrs	33	22.3	2408	19.1
	> 3 - 3.5 hrs	25	16.9	1949	15.4
	> 3.5 hrs	46	31.1	2453	19.4
	Not Reported	0	0.0	88	0.7
<b>Year of Transplant</b>	1988	24	16.2	1649	13.1
	1989	20	13.5	1677	13.3
	1990	23	15.5	2071	16.4
	1991	23	15.5	2098	16.6
	1992	32	21.6	2145	17.0
	1993	18	12.2	2266	17.9
	1994	8	5.4	721	5.7

Source: UNOS OPTN/Scientific Registry data.

**Response From: Fairview-University Medical Center  
420 Delaware Street, S.E., Minneapolis, MN 55455  
Provider Number 240049 (MNUM)**

May 5, 1997

Fairview University Medical Center Thoracic Transplant Program is pleased that UNOS heart transplant survival statistics for our Thoracic Transplant Program, exceed national and expected survival statistics. Numerous factors contribute to our program's successful track record. These include:

**Multi-disciplinary transplantation teams.** The integrated, multi-disciplinary teams include cardiologists, pulmonologists, surgeons, nurses, social workers, and financial representatives. Team members also consult with anesthesiologists, medical ethicists, immunologists, infectious disease practitioners, pathologists, and radiologists.

**Experienced transplant teams.** Members of the transplantation teams represent over 200 years of transplantation experience. Over 520 thoracic transplantations have been performed since 1978. Heart transplants during this time totals 148.

**Continuous quality improvement approach.** Weekly meetings of the heart transplant team, lung transplant team, and administrative team address problem solving, identifying benchmarks, incorporating staff education, implementing pilot projects, and establishing feedback mechanisms. Strategic planning initiatives are addressed monthly by an executive steering committee.

**Research emphasis.** A strong research emphasis enables our program to expeditiously incorporate innovative technologies and new therapies into patient care protocols.

**Actual graft survival rate** at 1 month, 1 year and 3 years was calculated as follows:

92.6%, 85.8%, and 93.1% respectively.

**Expected graft survival rate** at 1 month, 1 year and 3 years was calculated as follows:

91.6%, 82.4%, and 90.7% respectively.

**Actual patient survival rate** at 1 month, 1 year and 3 years was calculated as follows:

92.5%, 85.7%, and 94.8% respectively.

**Expected patient survival rate** at 1 month, 1 year and 3 years were calculated as follows:

92.1%, 83.3%, and 91.2% respectively.

We believe our excellent statistics are a reflection of our multi-disciplinary approach, with careful pretransplant, perioperative and post-transplant follow-up and close cooperation among medical, surgical, and other specialists.

Marshall I. Hertz, M.D.  
Medical Director



## Heart Transplants: January 1, 1988 - April 30, 1994

Survival Report for Barnes-Jewish Hospital - Saint Louis MO  
Provider Number 260014 (MOBH)Graft Survival

	Era 1: 1/1/88-4/30/92			Era 2: 5/1/92-4/30/94			Overall: 1/1/88-4/30/94						
Time Point	No. of TX	Act. Rate (%)	Exp. Rate (%)	No. of TX	Act. Rate (%)	Exp. Rate (%)	No. of TX	No. <sup>1</sup> w/CFU	No. Failed	Act. Rate (%)	Exp. Rate (%)	Diff. (%)	p- <sup>2</sup> value
1 Month	103	94.2	92.2	46	97.8	92.3	149	149	7	95.3	92.2	3.1	0.15
1 Year	103	91.3	82.6	46	95.7	83.1	149	149	11	92.6	82.8	9.8	<0.01*
Cond. <sup>3</sup> 3 Years	94	90.4	90.9				94	94	9	90.4	90.9	-0.5	0.87
3 Years <sup>3</sup>		82.5	75.1										

Patient Survival

	Era 1: 1/1/88-4/30/92			Era 2: 5/1/92-4/30/94			Overall: 1/1/88-4/30/94						
Time Point	No. of Pts. <sup>4</sup>	Act. Rate (%)	Exp. Rate (%)	No. of Pts. <sup>4</sup>	Act. Rate (%)	Exp. Rate (%)	No. of Pts. <sup>4</sup>	No. <sup>1,5</sup> w/CFU	No. <sup>5</sup> Died	Act. Rate (%)	Exp. Rate (%)	Diff. (%)	p- <sup>2</sup> value
1 Month	103	94.2	92.6	46	97.8	92.7	149	149.0	7.0	95.3	92.6	2.7	0.20
1 Year	103	91.3	83.3	46	95.7	83.7	149	149.0	11.0	92.6	83.4	9.2	<0.01*
Cond. <sup>3</sup> 3 Years	94	90.4	91.3				94	94.0	9.0	90.4	91.3	-0.9	0.75
3 Years <sup>3</sup>		82.5	76.1										

Notes: <sup>1</sup> No. with complete follow-up (CFU) is the total of the number of patients (grafts) whose status was known during the specified time interval.

<sup>2</sup> A p-value followed by an \* indicates that the difference is statistically significant at the 0.05 level.

<sup>3</sup> Conditional 3 year survival rates are the survival rates conditional on survival at 1 year. These are computed based on transplants between 1/1/88 and 4/30/92. Three year survival rates are computed by multiplying the 1 year and the conditional 3 year survival rates.

<sup>4</sup> The numbers of patients in Era 1 and Era 2 do not necessarily add up to the number of patients in the overall period, due to repeat transplants in different eras for some patients.

<sup>5</sup> No. w/CFU or No. Died may be fractional if patients received more than one transplant at the program.

Source: UNOS OPTN/Scientific Registry data.



**Heart Transplants: January 1, 1988 - April 30, 1994**  
**Donor and Recipient Characteristics: Program and National Frequencies**

**Barnes-Jewish Hospital - Saint Louis MO**  
**Provider Number 260014 (MOBH)**

		----- Program -----		--- National ---	
		Number	%	Number	%
<b>Total Transplants and Percentages</b>		<b>149</b>	<b>100.0</b>	<b>12627</b>	<b>100.0</b>
<b>Donor Age</b>	0-5	0	0.0	799	6.3
	6-10	1	0.7	274	2.2
	11-17	31	20.8	2029	16.1
	18-49	106	71.1	8923	70.7
	50-64	11	7.4	589	4.7
	65+	0	0.0	12	0.1
	Not Reported	0	0.0	1	0.0
<b>Donor Gender</b>	Female	51	34.2	3728	29.5
	Male	98	65.8	8899	70.5
<b>Donor Race</b>	White	119	79.9	10036	79.5
	Black	30	20.1	1263	10.0
	Hispanic	0	0.0	1143	9.1
	Asian	0	0.0	90	0.7
	Other	0	0.0	87	0.7
	Not Reported	0	0.0	8	0.1
<b>Recipient Age</b>	<1	0	0.0	549	4.3
	1-10	0	0.0	431	3.4
	11-17	0	0.0	358	2.8
	18-49	59	39.6	4493	35.6
	50-64	89	59.7	6373	50.5
	65+	1	0.7	423	3.3
<b>Recipient Gender</b>	Female	25	16.8	2761	21.9
	Male	124	83.2	9866	78.1
<b>Recipient Race</b>	White	135	90.6	10504	83.2
	Black	14	9.4	1206	9.6
	Hispanic	0	0.0	570	4.5
	Asian	0	0.0	125	1.0
	Other	0	0.0	216	1.7
	Not Reported	0	0.0	6	0.0

		----- Program -----		--- National ---	
		Number	%	Number	%
<b>Previous Heart Transplant</b>	No	146	98.0	12231	96.9
	Yes	0	0.0	344	2.7
	Not Reported	3	2.0	52	0.4
<b>On Ventilator at Transplant</b>	No	142	95.3	11892	94.2
	Yes	3	2.0	663	5.3
	Not Reported	4	2.7	72	0.6
<b>On VAD at Transplant</b>	No	144	96.6	12187	96.5
	Yes	1	0.7	366	2.9
	Not Reported	4	2.7	74	0.6
<b>On IABP at Transplant</b>	No	128	85.9	11754	93.1
	Yes	17	11.4	801	6.3
	Not Reported	4	2.7	72	0.6
<b>Diagnosis at Transplant</b>	Coronary Artery Disease	86	57.7	5222	41.4
	Cardiomyopathy	54	36.2	5779	45.8
	Eisenmenger's Syndrome/Congenital	1	0.7	933	7.4
	Valvular Heart Disease	8	5.4	476	3.8
	Other Diagnosis	0	0.0	183	1.4
	Not Reported	0	0.0	34	0.3
<b>Medical Condition at Transplant</b>	Not Hospitalized	77	51.7	5606	44.4
	Hospitalized	15	10.1	986	7.8
	In ICU	57	38.3	6019	47.7
	Not Reported	0	0.0	16	0.1
<b>Cold Ischemia Time</b>	Up to 2 hrs	24	16.1	3458	27.4
	> 2 - 2.5 hrs	24	16.1	2271	18.0
	> 2.5 - 3 hrs	32	21.5	2408	19.1
	> 3 - 3.5 hrs	22	14.8	1949	15.4
	> 3.5 hrs	47	31.5	2453	19.4
	Not Reported	0	0.0	88	0.7
<b>Year of Transplant</b>	1988	34	22.8	1649	13.1
	1989	25	16.8	1677	13.3
	1990	19	12.8	2071	16.4
	1991	17	11.4	2098	16.6
	1992	27	18.1	2145	17.0
	1993	19	12.8	2266	17.9
	1994	8	5.4	721	5.7

Source: UNOS OPTN/Scientific Registry data.

## Heart Transplants: January 1, 1988 - April 30, 1994

Survival Report for Cardinal Glennon Children's Hospital - Saint Louis MO  
Provider Number 263300 (MOCG)Graft Survival

	Era 1: 1/1/88-4/30/92			Era 2: 5/1/92-4/30/94			Overall: 1/1/88-4/30/94						
Time Point	No. of TX	Act. Rate (%)	Exp. Rate (%)	No. of TX	Act. Rate (%)	Exp. Rate (%)	No. of TX	No. <sup>1</sup> w/CFU	No. Failed	Act. Rate (%)	Exp. Rate (%)	Diff. (%)	p- <sup>2</sup> value
1 Month	8	75.0	80.7	7	71.4	81.8	15	15	4	73.3	81.2	-7.9	0.40
1 Year	8	50.0	69.3	7	57.1	69.0	15	15	7	53.3	69.2	-15.9	0.16
Cond. <sup>3</sup> 3 Years	4	50.0	89.5				4	4	2	50.0	89.5	-39.5	0.06
3 Years <sup>3</sup>		25.0	62.1										

Patient Survival

	Era 1: 1/1/88-4/30/92			Era 2: 5/1/92-4/30/94			Overall: 1/1/88-4/30/94						
Time Point	No. of Pts. <sup>4</sup>	Act. Rate (%)	Exp. Rate (%)	No. of Pts. <sup>4</sup>	Act. Rate (%)	Exp. Rate (%)	No. of Pts. <sup>4</sup>	No. <sup>1,5</sup> w/CFU	No. <sup>5</sup> Died	Act. Rate (%)	Exp. Rate (%)	Diff. (%)	p- <sup>2</sup> value
1 Month	8	75.0	81.0	7	71.4	82.0	15	15.0	4.0	73.3	81.5	-8.1	0.39
1 Year	8	50.0	70.3	7	57.1	69.9	15	15.0	7.0	53.3	70.1	-16.8	0.13
Cond. <sup>3</sup> 3 Years	4	50.0	90.1				4	4.0	2.0	50.0	90.1	-40.1	0.05
3 Years <sup>3</sup>		25.0	63.4										

Notes: <sup>1</sup> No. with complete follow-up (CFU) is the total of the number of patients (grafts) whose status was known during the specified time interval.

<sup>2</sup> A p-value followed by an \* indicates that the difference is statistically significant at the 0.05 level.

<sup>3</sup> Conditional 3 year survival rates are the survival rates conditional on survival at 1 year. These are computed based on transplants between 1/1/88 and 4/30/92. Three year survival rates are computed by multiplying the 1 year and the conditional 3 year survival rates.

<sup>4</sup> The numbers of patients in Era 1 and Era 2 do not necessarily add up to the number of patients in the overall period, due to repeat transplants in different eras for some patients.

<sup>5</sup> No. w/CFU or No. Died may be fractional if patients received more than one transplant at the program.

Source: UNOS OPTN/Scientific Registry data.

**Heart Transplants: January 1, 1988 - April 30, 1994**  
**Donor and Recipient Characteristics: Program and National Frequencies**

**Cardinal Glennon Children's Hospital - Saint Louis MO**  
**Provider Number 263300 (MOCG)**

		----- Program -----		--- National ---	
		Number	%	Number	%
<b>Total Transplants and Percentages</b>		<b>15</b>	<b>100.0</b>	<b>12627</b>	<b>100.0</b>
<b>Donor Age</b>	0-5	11	73.3	799	6.3
	6-10	2	13.3	274	2.2
	11-17	2	13.3	2029	16.1
	18-49	0	0.0	8923	70.7
	50-64	0	0.0	589	4.7
	65+	0	0.0	12	0.1
	Not Reported	0	0.0	1	0.0
<b>Donor Gender</b>	Female	6	40.0	3728	29.5
	Male	9	60.0	8899	70.5
<b>Donor Race</b>	White	14	93.3	10036	79.5
	Black	1	6.7	1263	10.0
	Hispanic	0	0.0	1143	9.1
	Asian	0	0.0	90	0.7
	Other	0	0.0	87	0.7
	Not Reported	0	0.0	8	0.1
<b>Recipient Age</b>	<1	9	60.0	549	4.3
	1-10	6	40.0	431	3.4
	11-17	0	0.0	358	2.8
	18-49	0	0.0	4493	35.6
	50-64	0	0.0	6373	50.5
	65+	0	0.0	423	3.3
<b>Recipient Gender</b>	Female	10	66.7	2761	21.9
	Male	5	33.3	9866	78.1
<b>Recipient Race</b>	White	11	73.3	10504	83.2
	Black	2	13.3	1206	9.6
	Hispanic	0	0.0	570	4.5
	Asian	0	0.0	125	1.0
	Other	2	13.3	216	1.7
	Not Reported	0	0.0	6	0.0

		----- Program -----		--- National ---	
		Number	%	Number	%
<b>Previous Heart Transplant</b>	No	14	93.3	12231	96.9
	Yes	1	6.7	344	2.7
	Not Reported	0	0.0	52	0.4
<b>On Ventilator at Transplant</b>	No	10	66.7	11892	94.2
	Yes	5	33.3	663	5.3
	Not Reported	0	0.0	72	0.6
<b>On VAD at Transplant</b>	No	15	100.0	12187	96.5
	Yes	0	0.0	366	2.9
	Not Reported	0	0.0	74	0.6
<b>On IABP at Transplant</b>	No	15	100.0	11754	93.1
	Yes	0	0.0	801	6.3
	Not Reported	0	0.0	72	0.6
<b>Diagnosis at Transplant</b>	Coronary Artery Disease	0	0.0	5222	41.4
	Cardiomyopathy	6	40.0	5779	45.8
	Eisenmenger's Syndrome/Congenital	9	60.0	933	7.4
	Valvular Heart Disease	0	0.0	476	3.8
	Other Diagnosis	0	0.0	183	1.4
	Not Reported	0	0.0	34	0.3
<b>Medical Condition at Transplant</b>	Not Hospitalized	8	53.3	5606	44.4
	Hospitalized	0	0.0	986	7.8
	In ICU	7	46.7	6019	47.7
	Not Reported	0	0.0	16	0.1
<b>Cold Ischemia Time</b>	Up to 2 hrs	0	0.0	3458	27.4
	> 2 - 2.5 hrs	0	0.0	2271	18.0
	> 2.5 - 3 hrs	2	13.3	2408	19.1
	> 3 - 3.5 hrs	3	20.0	1949	15.4
	> 3.5 hrs	10	66.7	2453	19.4
	Not Reported	0	0.0	88	0.7
<b>Year of Transplant</b>	1988	2	13.3	1649	13.1
	1989	0	0.0	1677	13.3
	1990	2	13.3	2071	16.4
	1991	4	26.7	2098	16.6
	1992	2	13.3	2145	17.0
	1993	5	33.3	2266	17.9
	1994	0	0.0	721	5.7

Source: UNOS OPTN/Scientific Registry data.

**Response From: Cardinal Glennon Children's Hospital  
1465 South Grand Boulevard, St. Louis, MO 63104  
Provider Number 263300 (MOCG)**

May 28, 1997

The Heart Transplant Program at Cardinal Glennon Children's Hospital/St. Louis University Health Sciences Center was instituted to provide the care needed to treat those children with irreversible, surgically uncorrectable, heart disease. Our success in carrying out heart transplantation has improved steadily since the institution of the program, especially our success in the management of more critically ill patients with complex congenital heart lesions. The data in the current Center Specific Report primarily reflect our experience early in our program. Our most recent data (not included in the Center Specific Report) show a 75% survival for patients transplanted since 1992 and the survival is 100% for those patients transplanted in the past three years.

This improvement in survival reflects the commitment of the heart transplant team and Cardinal Glennon Children's Hospital to continue to strive for excellence and to provide the best possible care for our patients.

Ian Balfour, M.D.  
Heart Transplant Program Director

A handwritten signature in cursive script that reads "Ian Balfour".

## Heart Transplants: January 1, 1988 - April 30, 1994

Survival Report for Saint Louis Children's Hospital - Saint Louis MO  
Provider Number 263301 (MOCH)Graft Survival

	Era 1: 1/1/88-4/30/92			Era 2: 5/1/92-4/30/94			Overall: 1/1/88-4/30/94						
Time Point	No. of TX	Act. Rate (%)	Exp. Rate (%)	No. of TX	Act. Rate (%)	Exp. Rate (%)	No. of TX	No. <sup>1</sup> w/CFU	No. Failed	Act. Rate (%)	Exp. Rate (%)	Diff. (%)	p- <sup>2</sup> value
1 Month	28	89.3	80.5	25	88.0	81.3	53	53	6	88.7	80.9	7.8	0.12
1 Year	28	78.6	66.9	25	72.0	68.6	53	53	13	75.5	67.7	7.7	0.19
Cond. <sup>3</sup> 3 Years	22	95.5	90.2				22	22	1	95.5	90.2	5.2	0.40
3 Years <sup>3</sup>		75.0	60.4										

Patient Survival

	Era 1: 1/1/88-4/30/92			Era 2: 5/1/92-4/30/94			Overall: 1/1/88-4/30/94						
Time Point	No. of Pts. <sup>4</sup>	Act. Rate (%)	Exp. Rate (%)	No. of Pts. <sup>4</sup>	Act. Rate (%)	Exp. Rate (%)	No. of Pts. <sup>4</sup>	No. <sup>1,5</sup> w/CFU	No. <sup>5</sup> Died	Act. Rate (%)	Exp. Rate (%)	Diff. (%)	p- <sup>2</sup> value
1 Month	26	90.4	81.8	22	90.9	82.7	48	48.0	4.5	90.6	82.2	8.4	0.11
1 Year	26	84.6	69.2	22	81.8	71.3	48	48.0	8.0	83.3	70.2	13.2	0.03*
Cond. <sup>3</sup> 3 Years	22	95.5	90.6				22	22.0	1.0	95.5	90.6	4.9	0.42
3 Years <sup>3</sup>		80.8	62.7										

Notes: <sup>1</sup> No. with complete follow-up (CFU) is the total of the number of patients (grafts) whose status was known during the specified time interval.

<sup>2</sup> A p-value followed by an \* indicates that the difference is statistically significant at the 0.05 level.

<sup>3</sup> Conditional 3 year survival rates are the survival rates conditional on survival at 1 year. These are computed based on transplants between 1/1/88 and 4/30/92. Three year survival rates are computed by multiplying the 1 year and the conditional 3 year survival rates.

<sup>4</sup> The numbers of patients in Era 1 and Era 2 do not necessarily add up to the number of patients in the overall period, due to repeat transplants in different eras for some patients.

<sup>5</sup> No. w/CFU or No. Died may be fractional if patients received more than one transplant at the program.

Source: UNOS OPTN/Scientific Registry data.



**Heart Transplants: January 1, 1988 - April 30, 1994**  
**Donor and Recipient Characteristics: Program and National Frequencies**

**Saint Louis Children's Hospital - Saint Louis MO**  
**Provider Number 263301 (MOCH)**

		----- Program -----		--- National ---	
		Number	%	Number	%
<b>Total Transplants and Percentages</b>		<b>53</b>	<b>100.0</b>	<b>12627</b>	<b>100.0</b>
<b>Donor Age</b>	0-5	43	81.1	799	6.3
	6-10	5	9.4	274	2.2
	11-17	4	7.5	2029	16.1
	18-49	1	1.9	8923	70.7
	50-64	0	0.0	589	4.7
	65+	0	0.0	12	0.1
	Not Reported	0	0.0	1	0.0
<b>Donor Gender</b>	Female	24	45.3	3728	29.5
	Male	29	54.7	8899	70.5
<b>Donor Race</b>	White	38	71.7	10036	79.5
	Black	12	22.6	1263	10.0
	Hispanic	2	3.8	1143	9.1
	Asian	0	0.0	90	0.7
	Other	1	1.9	87	0.7
	Not Reported	0	0.0	8	0.1
<b>Recipient Age</b>	<1	37	69.8	549	4.3
	1-10	9	17.0	431	3.4
	11-17	5	9.4	358	2.8
	18-49	2	3.8	4493	35.6
	50-64	0	0.0	6373	50.5
	65+	0	0.0	423	3.3
<b>Recipient Gender</b>	Female	21	39.6	2761	21.9
	Male	32	60.4	9866	78.1
<b>Recipient Race</b>	White	47	88.7	10504	83.2
	Black	6	11.3	1206	9.6
	Hispanic	0	0.0	570	4.5
	Asian	0	0.0	125	1.0
	Other	0	0.0	216	1.7
	Not Reported	0	0.0	6	0.0

		----- Program -----		--- National ---	
		Number	%	Number	%
<b>Previous Heart Transplant</b>	No	48	90.6	12231	96.9
	Yes	5	9.4	344	2.7
	Not Reported	0	0.0	52	0.4
<b>On Ventilator at Transplant</b>	No	35	66.0	11892	94.2
	Yes	18	34.0	663	5.3
	Not Reported	0	0.0	72	0.6
<b>On VAD at Transplant</b>	No	52	98.1	12187	96.5
	Yes	1	1.9	366	2.9
	Not Reported	0	0.0	74	0.6
<b>On IABP at Transplant</b>	No	53	100.0	11754	93.1
	Yes	0	0.0	801	6.3
	Not Reported	0	0.0	72	0.6
<b>Diagnosis at Transplant</b>	Coronary Artery Disease	0	0.0	5222	41.4
	Cardiomyopathy	11	20.8	5779	45.8
	Eisenmenger's Syndrome/Congenital	42	79.2	933	7.4
	Valvular Heart Disease	0	0.0	476	3.8
	Other Diagnosis	0	0.0	183	1.4
	Not Reported	0	0.0	34	0.3
<b>Medical Condition at Transplant</b>	Not Hospitalized	5	9.4	5606	44.4
	Hospitalized	4	7.5	986	7.8
	In ICU	44	83.0	6019	47.7
	Not Reported	0	0.0	16	0.1
<b>Cold Ischemia Time</b>	Up to 2 hrs	6	11.3	3458	27.4
	> 2 - 2.5 hrs	0	0.0	2271	18.0
	> 2.5 - 3 hrs	8	15.1	2408	19.1
	> 3 - 3.5 hrs	14	26.4	1949	15.4
	> 3.5 hrs	25	47.2	2453	19.4
	Not Reported	0	0.0	88	0.7
<b>Year of Transplant</b>	1988	3	5.7	1649	13.1
	1989	4	7.5	1677	13.3
	1990	5	9.4	2071	16.4
	1991	13	24.5	2098	16.6
	1992	9	17.0	2145	17.0
	1993	14	26.4	2266	17.9
	1994	5	9.4	721	5.7

Source: UNOS OPTN/Scientific Registry data.

**Response From: St. Louis Children's Hospital at Washington University Medical Center  
One Children's Place, St. Louis, MO 63110  
Provider Number 263301 (MOCH)**

June 6, 1997

The heart transplant program began at St. Louis Children's Hospital in 1986. This report concerns those transplants performed between January 1, 1988 and April 30, 1994. The total number of transplants performed at our center during this period is 53. Our center is devoted to a pediatric age population and thus, 51 of the 53 transplants were performed on patients under the age of 17. Thirty-seven out of our 53 transplants (70%) were performed in children under the age of 1; this is compared with 4% on the national average. Eighteen (34%) were on a ventilator at the time of transplant compared to 5% on the national average. Forty-four (83%) were in the Intensive Care Unit prior to their transplant compared to 48% in the national average.

With the above factors as a background, our actuarial survival rate exceeds the expected survival rate for all categories of both graft and patient survival in both the first and second era. This reached statistical significance for the 1 year survival overall of patients where the actual survival rate for 1 year was 83% at our center compared with the 70% expected.

We believe that the superior performance of our transplant center in this complex group of children undergoing transplantation is a reflection of the aggressive surveillance program that we have for rejection detection. We have adopted a policy of endomyocardial biopsy at regular intervals and to document suspected episodes of rejection on the basis of clinical findings even in small infants.

Charles B. Huddleston, M.D.  
Associate Professor of Surgery  
Chief, Section of Pediatric Cardiothoracic Surgery  
Surgical Director of Heart and Lung Transplant Program



## Heart Transplants: January 1, 1988 - April 30, 1994

Survival Report for Depaul Health Center - Bridgeton MO  
Provider Number 260104 (MODU)Graft Survival

	Era 1: 1/1/88-4/30/92			Era 2: 5/1/92-4/30/94			Overall: 1/1/88-4/30/94						
Time Point	No. of TX	Act. Rate (%)	Exp. Rate (%)	No. of TX	Act. Rate (%)	Exp. Rate (%)	No. of TX	No. <sup>1</sup> w/CFU	No. Failed	Act. Rate (%)	Exp. Rate (%)	Diff. (%)	p- <sup>2</sup> value
1 Month	2	100.0	94.6				2	2	0	100.0	94.6	5.4	0.90
1 Year	2	0.0	85.8				2	2	2	0.0	85.8	-85.8	0.02*
Cond. <sup>3</sup> 3 Years													
3 Years <sup>3</sup>													

Patient Survival

	Era 1: 1/1/88-4/30/92			Era 2: 5/1/92-4/30/94			Overall: 1/1/88-4/30/94						
Time Point	No. of Pts. <sup>4</sup>	Act. Rate (%)	Exp. Rate (%)	No. of Pts. <sup>4</sup>	Act. Rate (%)	Exp. Rate (%)	No. of Pts. <sup>4</sup>	No. <sup>1,5</sup> w/CFU	No. <sup>5</sup> Died	Act. Rate (%)	Exp. Rate (%)	Diff. (%)	p- <sup>2</sup> value
1 Month	2	100.0	94.8				2	2.0	0.0	100.0	94.8	5.2	0.90
1 Year	2	0.0	86.2				2	2.0	2.0	0.0	86.2	-86.2	0.02*
Cond. <sup>3</sup> 3 Years													
3 Years <sup>3</sup>													

Notes: <sup>1</sup> No. with complete follow-up (CFU) is the total of the number of patients (grafts) whose status was known during the specified time interval.

<sup>2</sup> A p-value followed by an \* indicates that the difference is statistically significant at the 0.05 level.

<sup>3</sup> Conditional 3 year survival rates are the survival rates conditional on survival at 1 year. These are computed based on transplants between 1/1/88 and 4/30/92. Three year survival rates are computed by multiplying the 1 year and the conditional 3 year survival rates.

<sup>4</sup> The numbers of patients in Era 1 and Era 2 do not necessarily add up to the number of patients in the overall period, due to repeat transplants in different eras for some patients.

<sup>5</sup> No. w/CFU or No. Died may be fractional if patients received more than one transplant at the program.

Source: UNOS OPTN/Scientific Registry data.

**Heart Transplants: January 1, 1988 - April 30, 1994**  
**Donor and Recipient Characteristics: Program and National Frequencies**

**Depaul Health Center - Bridgeton MO**  
**Provider Number 260104 (MODU)**

		----- Program -----		--- National ---	
		Number	%	Number	%
<b>Total Transplants and Percentages</b>		<b>2</b>	<b>100.0</b>	<b>12627</b>	<b>100.0</b>
<b>Donor Age</b>	0-5	0	0.0	799	6.3
	6-10	1	50.0	274	2.2
	11-17	0	0.0	2029	16.1
	18-49	1	50.0	8923	70.7
	50-64	0	0.0	589	4.7
	65+	0	0.0	12	0.1
	Not Reported	0	0.0	1	0.0
<b>Donor Gender</b>	Female	0	0.0	3728	29.5
	Male	2	100.0	8899	70.5
<b>Donor Race</b>	White	1	50.0	10036	79.5
	Black	0	0.0	1263	10.0
	Hispanic	1	50.0	1143	9.1
	Asian	0	0.0	90	0.7
	Other	0	0.0	87	0.7
	Not Reported	0	0.0	8	0.1
<b>Recipient Age</b>	<1	0	0.0	549	4.3
	1-10	0	0.0	431	3.4
	11-17	0	0.0	358	2.8
	18-49	1	50.0	4493	35.6
	50-64	1	50.0	6373	50.5
	65+	0	0.0	423	3.3
<b>Recipient Gender</b>	Female	1	50.0	2761	21.9
	Male	1	50.0	9866	78.1
<b>Recipient Race</b>	White	2	100.0	10504	83.2
	Black	0	0.0	1206	9.6
	Hispanic	0	0.0	570	4.5
	Asian	0	0.0	125	1.0
	Other	0	0.0	216	1.7
	Not Reported	0	0.0	6	0.0

		----- Program -----		--- National ---	
		Number	%	Number	%
Previous Heart Transplant	No	2	100.0	12231	96.9
	Yes	0	0.0	344	2.7
	Not Reported	0	0.0	52	0.4
On Ventilator at Transplant	No	2	100.0	11892	94.2
	Yes	0	0.0	663	5.3
	Not Reported	0	0.0	72	0.6
On VAD at Transplant	No	2	100.0	12187	96.5
	Yes	0	0.0	366	2.9
	Not Reported	0	0.0	74	0.6
On IABP at Transplant	No	2	100.0	11754	93.1
	Yes	0	0.0	801	6.3
	Not Reported	0	0.0	72	0.6
Diagnosis at Transplant	Coronary Artery Disease	0	0.0	5222	41.4
	Cardiomyopathy	2	100.0	5779	45.8
	Eisenmenger's Syndrome/Congenital	0	0.0	933	7.4
	Valvular Heart Disease	0	0.0	476	3.8
	Other Diagnosis	0	0.0	183	1.4
	Not Reported	0	0.0	34	0.3
Medical Condition at Transplant	Not Hospitalized	1	50.0	5606	44.4
	Hospitalized	0	0.0	986	7.8
	In ICU	1	50.0	6019	47.7
	Not Reported	0	0.0	16	0.1
Cold Ischemia Time	Up to 2 hrs	2	100.0	3458	27.4
	> 2 - 2.5 hrs	0	0.0	2271	18.0
	> 2.5 - 3 hrs	0	0.0	2408	19.1
	> 3 - 3.5 hrs	0	0.0	1949	15.4
	> 3.5 hrs	0	0.0	2453	19.4
	Not Reported	0	0.0	88	0.7
Year of Transplant	1988	1	50.0	1649	13.1
	1989	1	50.0	1677	13.3
	1990	0	0.0	2071	16.4
	1991	0	0.0	2098	16.6
	1992	0	0.0	2145	17.0
	1993	0	0.0	2266	17.9
	1994	0	0.0	721	5.7

Source: UNOS OPTN/Scientific Registry data.

## Heart Transplants: January 1, 1988 - April 30, 1994

Survival Report for St Luke's Hospital - Kansas City MO  
Provider Number 260138 (MOLH)Graft Survival

	Era 1: 1/1/88-4/30/92			Era 2: 5/1/92-4/30/94			Overall: 1/1/88-4/30/94						
Time Point	No. of TX	Act. Rate (%)	Exp. Rate (%)	No. of TX	Act. Rate (%)	Exp. Rate (%)	No. of TX	No. <sup>1</sup> w/CFU	No. Failed	Act. Rate (%)	Exp. Rate (%)	Diff. (%)	p- <sup>2</sup> value
1 Month	58	96.6	92.6	22	81.8	91.3	80	80	6	92.5	92.3	0.2	0.94
1 Year	58	84.5	83.6	22	81.8	80.9	80	80	13	83.8	82.9	0.9	0.83
Cond. <sup>3</sup> 3 Years	49	87.7	90.6				49	48	6	87.7	90.6	-3.0	0.47
3 Years <sup>3</sup>		74.1	75.8										

Patient Survival

	Era 1: 1/1/88-4/30/92			Era 2: 5/1/92-4/30/94			Overall: 1/1/88-4/30/94						
Time Point	No. of Pts. <sup>4</sup>	Act. Rate (%)	Exp. Rate (%)	No. of Pts. <sup>4</sup>	Act. Rate (%)	Exp. Rate (%)	No. of Pts. <sup>4</sup>	No. <sup>1,5</sup> w/CFU	No. <sup>5</sup> Died	Act. Rate (%)	Exp. Rate (%)	Diff. (%)	p- <sup>2</sup> value
1 Month	58	96.5	93.0	20	90.0	93.1	78	77.5	4.0	94.8	93.0	1.8	0.51
1 Year	58	84.3	84.3	20	90.0	83.2	78	77.5	11.0	85.8	84.0	1.8	0.65
Cond. <sup>3</sup> 3 Years	49	87.7	91.1				49	48.0	6.0	87.7	91.1	-3.5	0.39
3 Years <sup>3</sup>		73.9	76.8										

Notes: <sup>1</sup> No. with complete follow-up (CFU) is the total of the number of patients (grafts) whose status was known during the specified time interval.

<sup>2</sup> A p-value followed by an \* indicates that the difference is statistically significant at the 0.05 level.

<sup>3</sup> Conditional 3 year survival rates are the survival rates conditional on survival at 1 year. These are computed based on transplants between 1/1/88 and 4/30/92. Three year survival rates are computed by multiplying the 1 year and the conditional 3 year survival rates.

<sup>4</sup> The numbers of patients in Era 1 and Era 2 do not necessarily add up to the number of patients in the overall period, due to repeat transplants in different eras for some patients.

<sup>5</sup> No. w/CFU or No. Died may be fractional if patients received more than one transplant at the program.

Source: UNOS OPTN/Scientific Registry data.



**Heart Transplants: January 1, 1988 - April 30, 1994**  
**Donor and Recipient Characteristics: Program and National Frequencies**

**St Luke's Hospital - Kansas City MO**  
**Provider Number 260138 (MOLH)**

		---- Program ----		--- National ---	
		Number	%	Number	%
<b>Total Transplants and Percentages</b>		<b>80</b>	<b>100.0</b>	<b>12627</b>	<b>100.0</b>
<b>Donor Age</b>	0-5	0	0.0	799	6.3
	6-10	0	0.0	274	2.2
	11-17	16	20.0	2029	16.1
	18-49	55	68.8	8923	70.7
	50-64	9	11.3	589	4.7
	65+	0	0.0	12	0.1
	Not Reported	0	0.0	1	0.0
<b>Donor Gender</b>	Female	24	30.0	3728	29.5
	Male	56	70.0	8899	70.5
<b>Donor Race</b>	White	71	88.8	10036	79.5
	Black	7	8.8	1263	10.0
	Hispanic	1	1.3	1143	9.1
	Asian	0	0.0	90	0.7
	Other	1	1.3	87	0.7
	Not Reported	0	0.0	8	0.1
<b>Recipient Age</b>	<1	0	0.0	549	4.3
	1-10	0	0.0	431	3.4
	11-17	3	3.8	358	2.8
	18-49	31	38.8	4493	35.6
	50-64	45	56.3	6373	50.5
	65+	1	1.3	423	3.3
<b>Recipient Gender</b>	Female	16	20.0	2761	21.9
	Male	64	80.0	9866	78.1
<b>Recipient Race</b>	White	74	92.5	10504	83.2
	Black	5	6.3	1206	9.6
	Hispanic	1	1.3	570	4.5
	Asian	0	0.0	125	1.0
	Other	0	0.0	216	1.7
	Not Reported	0	0.0	6	0.0

		----- Program -----		--- National ---	
		Number	%	Number	%
<b>Previous Heart Transplant</b>	No	76	95.0	12231	96.9
	Yes	4	5.0	344	2.7
	Not Reported	0	0.0	52	0.4
<b>On Ventilator at Transplant</b>	No	78	97.5	11892	94.2
	Yes	2	2.5	663	5.3
	Not Reported	0	0.0	72	0.6
<b>On VAD at Transplant</b>	No	78	97.5	12187	96.5
	Yes	2	2.5	366	2.9
	Not Reported	0	0.0	74	0.6
<b>On IABP at Transplant</b>	No	73	91.3	11754	93.1
	Yes	7	8.8	801	6.3
	Not Reported	0	0.0	72	0.6
<b>Diagnosis at Transplant</b>	Coronary Artery Disease	36	45.0	5222	41.4
	Cardiomyopathy	42	52.5	5779	45.8
	Eisenmenger's Syndrome/Congenital	0	0.0	933	7.4
	Valvular Heart Disease	2	2.5	476	3.8
	Other Diagnosis	0	0.0	183	1.4
	Not Reported	0	0.0	34	0.3
<b>Medical Condition at Transplant</b>	Not Hospitalized	52	65.0	5606	44.4
	Hospitalized	8	10.0	986	7.8
	In ICU	20	25.0	6019	47.7
	Not Reported	0	0.0	16	0.1
<b>Cold Ischemia Time</b>	Up to 2 hrs	38	47.5	3458	27.4
	> 2 - 2.5 hrs	8	10.0	2271	18.0
	> 2.5 - 3 hrs	25	31.3	2408	19.1
	> 3 - 3.5 hrs	4	5.0	1949	15.4
	> 3.5 hrs	5	6.3	2453	19.4
	Not Reported	0	0.0	88	0.7
<b>Year of Transplant</b>	1988	13	16.3	1649	13.1
	1989	11	13.8	1677	13.3
	1990	11	13.8	2071	16.4
	1991	19	23.8	2098	16.6
	1992	10	12.5	2145	17.0
	1993	14	17.5	2266	17.9
	1994	2	2.5	721	5.7

Source: UNOS OPTN/Scientific Registry data.

## Heart Transplants: January 1, 1988 - April 30, 1994

Survival Report for Menorah Medical Center - Kansas City MO  
Provider Number 260112 (MOMM)Graft Survival

	Era 1: 1/1/88-4/30/92			Era 2: 5/1/92-4/30/94			Overall: 1/1/88-4/30/94						
Time Point	No. of TX	Act. Rate (%)	Exp. Rate (%)	No. of TX	Act. Rate (%)	Exp. Rate (%)	No. of TX	No. <sup>1</sup> w/CFU	No. Failed	Act. Rate (%)	Exp. Rate (%)	Diff. (%)	p- <sup>2</sup> value
1 Month	5	60.0	88.9				5	5	2	60.0	88.9	-28.9	0.10
1 Year	5	20.0	77.3				5	5	4	20.0	77.3	-57.3	0.01*
Cond. <sup>3</sup> 3 Years	1	100.0	92.1				1	1	0	100.0	92.1	7.9	0.93
3 Years <sup>3</sup>		20.0	71.2										

Patient Survival

	Era 1: 1/1/88-4/30/92			Era 2: 5/1/92-4/30/94			Overall: 1/1/88-4/30/94						
Time Point	No. of Pts. <sup>4</sup>	Act. Rate (%)	Exp. Rate (%)	No. of Pts. <sup>4</sup>	Act. Rate (%)	Exp. Rate (%)	No. of Pts. <sup>4</sup>	No. <sup>1,5</sup> w/CFU	No. <sup>5</sup> Died	Act. Rate (%)	Exp. Rate (%)	Diff. (%)	p- <sup>2</sup> value
1 Month	5	60.0	89.2				5	5.0	2.0	60.0	89.2	-29.2	0.09
1 Year	5	20.0	77.6				5	5.0	4.0	20.0	77.6	-57.6	0.01*
Cond. <sup>3</sup> 3 Years	1	100.0	92.2				1	1.0	0.0	100.0	92.2	7.8	0.93
3 Years <sup>3</sup>		20.0	71.5										

- Notes: <sup>1</sup>. No. with complete follow-up (CFU) is the total of the number of patients (grafts) whose status was known during the specified time interval.
- <sup>2</sup>. A p-value followed by an \* indicates that the difference is statistically significant at the 0.05 level.
- <sup>3</sup>. Conditional 3 year survival rates are the survival rates conditional on survival at 1 year. These are computed based on transplants between 1/1/88 and 4/30/92. Three year survival rates are computed by multiplying the 1 year and the conditional 3 year survival rates.
- <sup>4</sup>. The numbers of patients in Era 1 and Era 2 do not necessarily add up to the number of patients in the overall period, due to repeat transplants in different eras for some patients.
- <sup>5</sup>. No. w/CFU or No. Died may be fractional if patients received more than one transplant at the program.

Source: UNOS OPTN/Scientific Registry data.

**Heart Transplants: January 1, 1988 - April 30, 1994**  
**Donor and Recipient Characteristics: Program and National Frequencies**

**Menorah Medical Center - Kansas City MO**  
**Provider Number 260112 (MOMM)**

		----- Program -----		--- National ---	
		Number	%	Number	%
<b>Total Transplants and Percentages</b>		<b>5</b>	<b>100.0</b>	<b>12627</b>	<b>100.0</b>
<b>Donor Age</b>	0-5	0	0.0	799	6.3
	6-10	0	0.0	274	2.2
	11-17	0	0.0	2029	16.1
	18-49	5	100.0	8923	70.7
	50-64	0	0.0	589	4.7
	65+	0	0.0	12	0.1
	Not Reported	0	0.0	1	0.0
<b>Donor Gender</b>	Female	0	0.0	3728	29.5
	Male	5	100.0	8899	70.5
<b>Donor Race</b>	White	5	100.0	10036	79.5
	Black	0	0.0	1263	10.0
	Hispanic	0	0.0	1143	9.1
	Asian	0	0.0	90	0.7
	Other	0	0.0	87	0.7
	Not Reported	0	0.0	8	0.1
<b>Recipient Age</b>	<1	0	0.0	549	4.3
	1-10	0	0.0	431	3.4
	11-17	0	0.0	358	2.8
	18-49	0	0.0	4493	35.6
	50-64	5	100.0	6373	50.5
	65+	0	0.0	423	3.3
<b>Recipient Gender</b>	Female	0	0.0	2761	21.9
	Male	5	100.0	9866	78.1
<b>Recipient Race</b>	White	5	100.0	10504	83.2
	Black	0	0.0	1206	9.6
	Hispanic	0	0.0	570	4.5
	Asian	0	0.0	125	1.0
	Other	0	0.0	216	1.7
	Not Reported	0	0.0	6	0.0

		----- Program -----		--- National ---	
		Number	%	Number	%
<b>Previous Heart Transplant</b>	No	5	100.0	12231	96.9
	Yes	0	0.0	344	2.7
	Not Reported	0	0.0	52	0.4
<b>On Ventilator at Transplant</b>	No	3	60.0	11892	94.2
	Yes	2	40.0	663	5.3
	Not Reported	0	0.0	72	0.6
<b>On VAD at Transplant</b>	No	5	100.0	12187	96.5
	Yes	0	0.0	366	2.9
	Not Reported	0	0.0	74	0.6
<b>On IABP at Transplant</b>	No	3	60.0	11754	93.1
	Yes	2	40.0	801	6.3
	Not Reported	0	0.0	72	0.6
<b>Diagnosis at Transplant</b>	Coronary Artery Disease	1	20.0	5222	41.4
	Cardiomyopathy	3	60.0	5779	45.8
	Eisenmenger's Syndrome/Congenital	0	0.0	933	7.4
	Valvular Heart Disease	1	20.0	476	3.8
	Other Diagnosis	0	0.0	183	1.4
	Not Reported	0	0.0	34	0.3
<b>Medical Condition at Transplant</b>	Not Hospitalized	2	40.0	5606	44.4
	Hospitalized	0	0.0	986	7.8
	In ICU	3	60.0	6019	47.7
	Not Reported	0	0.0	16	0.1
<b>Cold Ischemia Time</b>	Up to 2 hrs	0	0.0	3458	27.4
	> 2 - 2.5 hrs	1	20.0	2271	18.0
	> 2.5 - 3 hrs	1	20.0	2408	19.1
	> 3 - 3.5 hrs	1	20.0	1949	15.4
	> 3.5 hrs	2	40.0	2453	19.4
	Not Reported	0	0.0	88	0.7
<b>Year of Transplant</b>	1988	2	40.0	1649	13.1
	1989	3	60.0	1677	13.3
	1990	0	0.0	2071	16.4
	1991	0	0.0	2098	16.6
	1992	0	0.0	2145	17.0
	1993	0	0.0	2266	17.9
	1994	0	0.0	721	5.7

Source: UNOS OPTN/Scientific Registry data.

## Heart Transplants: January 1, 1988 - April 30, 1994

Survival Report for Saint Louis University Hospital - Saint Louis MO  
Provider Number 260105 (MOSL)Graft Survival

	Era 1: 1/1/88-4/30/92			Era 2: 5/1/92-4/30/94			Overall: 1/1/88-4/30/94						
Time Point	No. of TX	Act. Rate (%)	Exp. Rate (%)	No. of TX	Act. Rate (%)	Exp. Rate (%)	No. of TX	No. <sup>1</sup> w/CFU	No. Failed	Act. Rate (%)	Exp. Rate (%)	Diff. (%)	p- <sup>2</sup> value
1 Month	97	95.9	92.7	49	98.0	91.2	146	146	5	96.6	92.2	4.4	0.04*
1 Year	97	89.7	83.0	49	83.7	81.7	146	146	18	87.7	82.6	5.1	0.09
Cond. <sup>3</sup> 3 Years	87	90.8	91.0				87	87	8	90.8	91.0	-0.2	0.96
3 Years <sup>3</sup>		81.4	75.5										

Patient Survival

	Era 1: 1/1/88-4/30/92			Era 2: 5/1/92-4/30/94			Overall: 1/1/88-4/30/94						
Time Point	No. of Pts. <sup>4</sup>	Act. Rate (%)	Exp. Rate (%)	No. of Pts. <sup>4</sup>	Act. Rate (%)	Exp. Rate (%)	No. of Pts. <sup>4</sup>	No. <sup>1,5</sup> w/CFU	No. <sup>5</sup> Died	Act. Rate (%)	Exp. Rate (%)	Diff. (%)	p- <sup>2</sup> value
1 Month	95	95.8	93.3	47	100.0	92.3	141	140.5	4.0	97.2	93.0	4.2	0.05*
1 Year	95	89.9	83.9	47	87.0	83.1	141	140.5	15.5	89.0	83.6	5.4	0.08
Cond. <sup>3</sup> 3 Years	86	90.7	91.4				86	86.0	8.0	90.7	91.4	-0.7	0.82
3 Years <sup>3</sup>		81.6	76.6										

- Notes: <sup>1</sup> No. with complete follow-up (CFU) is the total of the number of patients (grafts) whose status was known during the specified time interval.
- <sup>2</sup> A p-value followed by an \* indicates that the difference is statistically significant at the 0.05 level.
- <sup>3</sup> Conditional 3 year survival rates are the survival rates conditional on survival at 1 year. These are computed based on transplants between 1/1/88 and 4/30/92. Three year survival rates are computed by multiplying the 1 year and the conditional 3 year survival rates.
- <sup>4</sup> The numbers of patients in Era 1 and Era 2 do not necessarily add up to the number of patients in the overall period, due to repeat transplants in different eras for some patients.
- <sup>5</sup> No. w/CFU or No. Died may be fractional if patients received more than one transplant at the program.

Source: UNOS OPTN/Scientific Registry data.

**Heart Transplants: January 1, 1988 - April 30, 1994**  
**Donor and Recipient Characteristics: Program and National Frequencies**

**Saint Louis University Hospital - Saint Louis MO**  
**Provider Number 260105 (MOSL)**

		----- Program -----		--- National ---	
		Number	%	Number	%
<b>Total Transplants and Percentages</b>		<b>146</b>	<b>100.0</b>	<b>12627</b>	<b>100.0</b>
<b>Donor Age</b>	0-5	1	0.7	799	6.3
	6-10	0	0.0	274	2.2
	11-17	30	20.5	2029	16.1
	18-49	110	75.3	8923	70.7
	50-64	5	3.4	589	4.7
	65+	0	0.0	12	0.1
	Not Reported	0	0.0	1	0.0
<b>Donor Gender</b>	Female	43	29.5	3728	29.5
	Male	103	70.5	8899	70.5
<b>Donor Race</b>	White	133	91.1	10036	79.5
	Black	12	8.2	1263	10.0
	Hispanic	1	0.7	1143	9.1
	Asian	0	0.0	90	0.7
	Other	0	0.0	87	0.7
	Not Reported	0	0.0	8	0.1
<b>Recipient Age</b>	<1	0	0.0	549	4.3
	1-10	0	0.0	431	3.4
	11-17	1	0.7	358	2.8
	18-49	59	40.4	4493	35.6
	50-64	83	56.8	6373	50.5
	65+	3	2.1	423	3.3
<b>Recipient Gender</b>	Female	29	19.9	2761	21.9
	Male	117	80.1	9866	78.1
<b>Recipient Race</b>	White	137	93.8	10504	83.2
	Black	8	5.5	1206	9.6
	Hispanic	0	0.0	570	4.5
	Asian	0	0.0	125	1.0
	Other	1	0.7	216	1.7
	Not Reported	0	0.0	6	0.0



		----- Program -----		--- National ---	
		Number	%	Number	%
<b>Previous Heart Transplant</b>	No	134	91.8	12231	96.9
	Yes	10	6.8	344	2.7
	Not Reported	2	1.4	52	0.4
<b>On Ventilator at Transplant</b>	No	145	99.3	11892	94.2
	Yes	1	0.7	663	5.3
	Not Reported	0	0.0	72	0.6
<b>On VAD at Transplant</b>	No	127	87.0	12187	96.5
	Yes	19	13.0	366	2.9
	Not Reported	0	0.0	74	0.6
<b>On IABP at Transplant</b>	No	143	97.9	11754	93.1
	Yes	3	2.1	801	6.3
	Not Reported	0	0.0	72	0.6
<b>Diagnosis at Transplant</b>	Coronary Artery Disease	3	2.1	5222	41.4
	Cardiomyopathy	125	85.6	5779	45.8
	Eisenmenger's Syndrome/Congenital	10	6.8	933	7.4
	Valvular Heart Disease	8	5.5	476	3.8
	Other Diagnosis	0	0.0	183	1.4
	Not Reported	0	0.0	34	0.3
<b>Medical Condition at Transplant</b>	Not Hospitalized	73	50.0	5606	44.4
	Hospitalized	18	12.3	986	7.8
	In ICU	55	37.7	6019	47.7
	Not Reported	0	0.0	16	0.1
<b>Cold Ischemia Time</b>	Up to 2 hrs	37	25.3	3458	27.4
	> 2 - 2.5 hrs	28	19.2	2271	18.0
	> 2.5 - 3 hrs	16	11.0	2408	19.1
	> 3 - 3.5 hrs	26	17.8	1949	15.4
	> 3.5 hrs	39	26.7	2453	19.4
	Not Reported	0	0.0	88	0.7
<b>Year of Transplant</b>	1988	23	15.8	1649	13.1
	1989	19	13.0	1677	13.3
	1990	17	11.6	2071	16.4
	1991	29	19.9	2098	16.6
	1992	22	15.1	2145	17.0
	1993	28	19.2	2266	17.9
	1994	8	5.5	721	5.7

Source: UNOS OPTN/Scientific Registry data.

## Heart Transplants: January 1, 1988 - April 30, 1994

Survival Report for University of Missouri Hospital & Clinic - Columbia MO  
Provider Number 260141 (MOUM)Graft Survival

	Era 1: 1/1/88-4/30/92			Era 2: 5/1/92-4/30/94			Overall: 1/1/88-4/30/94						
Time Point	No. of TX	Act. Rate (%)	Exp. Rate (%)	No. of TX	Act. Rate (%)	Exp. Rate (%)	No. of TX	No. <sup>1</sup> w/CFU	No. Failed	Act. Rate (%)	Exp. Rate (%)	Diff. (%)	p- <sup>2</sup> value
1 Month	21	100.0	94.3	20	100.0	94.0	41	41	0	100.0	94.2	5.8	0.11
1 Year	21	85.7	85.7	20	90.0	86.0	41	41	5	87.8	85.9	2.0	0.72
Cond. <sup>3</sup> 3 Years	18	94.4	92.0				18	17	1	94.4	92.0	2.4	0.71
3 Years <sup>3</sup>		80.9	78.8										

Patient Survival

	Era 1: 1/1/88-4/30/92			Era 2: 5/1/92-4/30/94			Overall: 1/1/88-4/30/94						
Time Point	No. of Pts. <sup>4</sup>	Act. Rate (%)	Exp. Rate (%)	No. of Pts. <sup>4</sup>	Act. Rate (%)	Exp. Rate (%)	No. of Pts. <sup>4</sup>	No. <sup>1,5</sup> w/CFU	No. <sup>5</sup> Died	Act. Rate (%)	Exp. Rate (%)	Diff. (%)	p- <sup>2</sup> value
1 Month	21	100.0	94.5	20	100.0	94.3	41	41.0	0.0	100.0	94.4	5.6	0.12
1 Year	21	85.7	86.2	20	90.0	86.5	41	41.0	5.0	87.8	86.3	1.5	0.78
Cond. <sup>3</sup> 3 Years	18	94.4	92.2				18	17.0	1.0	94.4	92.2	2.2	0.73
3 Years <sup>3</sup>		80.9	79.5										

Notes: <sup>1</sup> No. with complete follow-up (CFU) is the total of the number of patients (grafts) whose status was known during the specified time interval.

<sup>2</sup> A p-value followed by an \* indicates that the difference is statistically significant at the 0.05 level.

<sup>3</sup> Conditional 3 year survival rates are the survival rates conditional on survival at 1 year. These are computed based on transplants between 1/1/88 and 4/30/92. Three year survival rates are computed by multiplying the 1 year and the conditional 3 year survival rates.

<sup>4</sup> The numbers of patients in Era 1 and Era 2 do not necessarily add up to the number of patients in the overall period, due to repeat transplants in different eras for some patients.

<sup>5</sup> No. w/CFU or No. Died may be fractional if patients received more than one transplant at the program.

Source: UNOS OPTN/Scientific Registry data.

**Heart Transplants: January 1, 1988 - April 30, 1994**  
**Donor and Recipient Characteristics: Program and National Frequencies**

**University of Missouri Hospital & Clinic - Columbia MO**  
**Provider Number 260141 (MOUM)**

		----- Program -----		--- National ---	
		Number	%	Number	%
<b>Total Transplants and Percentages</b>		<b>41</b>	<b>100.0</b>	<b>12627</b>	<b>100.0</b>
<b>Donor Age</b>	0-5	0	0.0	799	6.3
	6-10	0	0.0	274	2.2
	11-17	10	24.4	2029	16.1
	18-49	31	75.6	8923	70.7
	50-64	0	0.0	589	4.7
	65+	0	0.0	12	0.1
	Not Reported	0	0.0	1	0.0
<b>Donor Gender</b>	Female	10	24.4	3728	29.5
	Male	31	75.6	8899	70.5
<b>Donor Race</b>	White	38	92.7	10036	79.5
	Black	2	4.9	1263	10.0
	Hispanic	1	2.4	1143	9.1
	Asian	0	0.0	90	0.7
	Other	0	0.0	87	0.7
	Not Reported	0	0.0	8	0.1
<b>Recipient Age</b>	<1	0	0.0	549	4.3
	1-10	0	0.0	431	3.4
	11-17	1	2.4	358	2.8
	18-49	11	26.8	4493	35.6
	50-64	28	68.3	6373	50.5
	65+	1	2.4	423	3.3
<b>Recipient Gender</b>	Female	2	4.9	2761	21.9
	Male	39	95.1	9866	78.1
<b>Recipient Race</b>	White	41	100.0	10504	83.2
	Black	0	0.0	1206	9.6
	Hispanic	0	0.0	570	4.5
	Asian	0	0.0	125	1.0
	Other	0	0.0	216	1.7
	Not Reported	0	0.0	6	0.0

		----- Program -----		--- National ---	
		Number	%	Number	%
<b>Previous Heart Transplant</b>	No	41	100.0	12231	96.9
	Yes	0	0.0	344	2.7
	Not Reported	0	0.0	52	0.4
<b>On Ventilator at Transplant</b>	No	40	97.6	11892	94.2
	Yes	0	0.0	663	5.3
	Not Reported	1	2.4	72	0.6
<b>On VAD at Transplant</b>	No	40	97.6	12187	96.5
	Yes	0	0.0	366	2.9
	Not Reported	1	2.4	74	0.6
<b>On IABP at Transplant</b>	No	39	95.1	11754	93.1
	Yes	1	2.4	801	6.3
	Not Reported	1	2.4	72	0.6
<b>Diagnosis at Transplant</b>	Coronary Artery Disease	24	58.5	5222	41.4
	Cardiomyopathy	15	36.6	5779	45.8
	Eisenmenger's Syndrome/Congenital	0	0.0	933	7.4
	Valvular Heart Disease	2	4.9	476	3.8
	Other Diagnosis	0	0.0	183	1.4
	Not Reported	0	0.0	34	0.3
<b>Medical Condition at Transplant</b>	Not Hospitalized	24	58.5	5606	44.4
	Hospitalized	0	0.0	986	7.8
	In ICU	17	41.5	6019	47.7
	Not Reported	0	0.0	16	0.1
<b>Cold Ischemia Time</b>	Up to 2 hrs	11	26.8	3458	27.4
	> 2 - 2.5 hrs	10	24.4	2271	18.0
	> 2.5 - 3 hrs	12	29.3	2408	19.1
	> 3 - 3.5 hrs	4	9.8	1949	15.4
	> 3.5 hrs	4	9.8	2453	19.4
	Not Reported	0	0.0	88	0.7
<b>Year of Transplant</b>	1988	0	0.0	1649	13.1
	1989	2	4.9	1677	13.3
	1990	3	7.3	2071	16.4
	1991	10	24.4	2098	16.6
	1992	9	22.0	2145	17.0
	1993	14	34.1	2266	17.9
	1994	3	7.3	721	5.7

Source: UNOS OPTN/Scientific Registry data.

## Heart Transplants: January 1, 1988 - April 30, 1994

Survival Report for University of Mississippi Medical Center - Jackson MS  
Provider Number 250001 (MSUM)Graft Survival

	Era 1: 1/1/88-4/30/92			Era 2: 5/1/92-4/30/94			Overall: 1/1/88-4/30/94						
Time Point	No. of TX	Act. Rate (%)	Exp. Rate (%)	No. of TX	Act. Rate (%)	Exp. Rate (%)	No. of TX	No. <sup>1</sup> w/CFU	No. Failed	Act. Rate (%)	Exp. Rate (%)	Diff. (%)	p- <sup>2</sup> value
1 Month	19	94.7	94.4	16	81.3	93.7	35	35	4	88.6	94.1	-5.5	0.16
1 Year	19	78.9	85.4	16	81.3	84.6	35	35	7	80.0	85.1	-5.1	0.40
Cond. <sup>3</sup> 3 Years	15	93.3	91.3				15	15	1	93.3	91.3	2.0	0.78
3 Years <sup>3</sup>		73.7	78.0										

Patient Survival

	Era 1: 1/1/88-4/30/92			Era 2: 5/1/92-4/30/94			Overall: 1/1/88-4/30/94						
Time Point	No. of Pts. <sup>4</sup>	Act. Rate (%)	Exp. Rate (%)	No. of Pts. <sup>4</sup>	Act. Rate (%)	Exp. Rate (%)	No. of Pts. <sup>4</sup>	No. <sup>1,5</sup> w/CFU	No. <sup>5</sup> Died	Act. Rate (%)	Exp. Rate (%)	Diff. (%)	p- <sup>2</sup> value
1 Month	19	94.7	94.7	16	81.3	94.1	35	35.0	4.0	88.6	94.4	-5.9	0.13
1 Year	19	78.9	86.1	16	81.3	85.3	35	35.0	7.0	80.0	85.7	-5.7	0.33
Cond. <sup>3</sup> 3 Years	15	93.3	91.8				15	15.0	1.0	93.3	91.8	1.5	0.83
3 Years <sup>3</sup>		73.7	79.1										

- Notes: <sup>1</sup> No. with complete follow-up (CFU) is the total of the number of patients (grafts) whose status was known during the specified time interval.
- <sup>2</sup> A p-value followed by an \* indicates that the difference is statistically significant at the 0.05 level.
- <sup>3</sup> Conditional 3 year survival rates are the survival rates conditional on survival at 1 year. These are computed based on transplants between 1/1/88 and 4/30/92. Three year survival rates are computed by multiplying the 1 year and the conditional 3 year survival rates.
- <sup>4</sup> The numbers of patients in Era 1 and Era 2 do not necessarily add up to the number of patients in the overall period, due to repeat transplants in different eras for some patients.
- <sup>5</sup> No. w/CFU or No. Died may be fractional if patients received more than one transplant at the program.

Source: UNOS OPTN/Scientific Registry data.

**Heart Transplants: January 1, 1988 - April 30, 1994**  
**Donor and Recipient Characteristics: Program and National Frequencies**

**University of Mississippi Medical Center - Jackson MS**  
**Provider Number 250001 (MSUM)**

		----- Program -----		--- National ---	
		Number	%	Number	%
<b>Total Transplants and Percentages</b>		<b>35</b>	<b>100.0</b>	<b>12627</b>	<b>100.0</b>
<b>Donor Age</b>	0-5	0	0.0	799	6.3
	6-10	1	2.9	274	2.2
	11-17	6	17.1	2029	16.1
	18-49	25	71.4	8923	70.7
	50-64	3	8.6	589	4.7
	65+	0	0.0	12	0.1
	Not Reported	0	0.0	1	0.0
<b>Donor Gender</b>	Female	14	40.0	3728	29.5
	Male	21	60.0	8899	70.5
<b>Donor Race</b>	White	28	80.0	10036	79.5
	Black	7	20.0	1263	10.0
	Hispanic	0	0.0	1143	9.1
	Asian	0	0.0	90	0.7
	Other	0	0.0	87	0.7
	Not Reported	0	0.0	8	0.1
<b>Recipient Age</b>	<1	0	0.0	549	4.3
	1-10	1	2.9	431	3.4
	11-17	2	5.7	358	2.8
	18-49	14	40.0	4493	35.6
	50-64	18	51.4	6373	50.5
	65+	0	0.0	423	3.3
<b>Recipient Gender</b>	Female	6	17.1	2761	21.9
	Male	29	82.9	9866	78.1
<b>Recipient Race</b>	White	29	82.9	10504	83.2
	Black	5	14.3	1206	9.6
	Hispanic	0	0.0	570	4.5
	Asian	0	0.0	125	1.0
	Other	1	2.9	216	1.7
	Not Reported	0	0.0	6	0.0

		----- Program -----		--- National ---	
		Number	%	Number	%
<b>Previous Heart Transplant</b>	No	35	100.0	12231	96.9
	Yes	0	0.0	344	2.7
	Not Reported	0	0.0	52	0.4
<b>On Ventilator at Transplant</b>	No	35	100.0	11892	94.2
	Yes	0	0.0	663	5.3
	Not Reported	0	0.0	72	0.6
<b>On VAD at Transplant</b>	No	35	100.0	12187	96.5
	Yes	0	0.0	366	2.9
	Not Reported	0	0.0	74	0.6
<b>On IABP at Transplant</b>	No	35	100.0	11754	93.1
	Yes	0	0.0	801	6.3
	Not Reported	0	0.0	72	0.6
<b>Diagnosis at Transplant</b>	Coronary Artery Disease	16	45.7	5222	41.4
	Cardiomyopathy	17	48.6	5779	45.8
	Eisenmenger's Syndrome/Congenital	1	2.9	933	7.4
	Valvular Heart Disease	1	2.9	476	3.8
	Other Diagnosis	0	0.0	183	1.4
	Not Reported	0	0.0	34	0.3
<b>Medical Condition at Transplant</b>	Not Hospitalized	28	80.0	5606	44.4
	Hospitalized	2	5.7	986	7.8
	In ICU	5	14.3	6019	47.7
	Not Reported	0	0.0	16	0.1
<b>Cold Ischemia Time</b>	Up to 2 hrs	7	20.0	3458	27.4
	> 2 - 2.5 hrs	6	17.1	2271	18.0
	> 2.5 - 3 hrs	10	28.6	2408	19.1
	> 3 - 3.5 hrs	5	14.3	1949	15.4
	> 3.5 hrs	6	17.1	2453	19.4
	Not Reported	1	2.9	88	0.7
<b>Year of Transplant</b>	1988	8	22.9	1649	13.1
	1989	1	2.9	1677	13.3
	1990	6	17.1	2071	16.4
	1991	2	5.7	2098	16.6
	1992	6	17.1	2145	17.0
	1993	8	22.9	2266	17.9
	1994	4	11.4	721	5.7

Source: UNOS OPTN/Scientific Registry data.



## Heart Transplants: January 1, 1988 - April 30, 1994

Survival Report for North Carolina Baptist Hospital - Winston-Salem NC  
Provider Number 340047 (NCBG)Graft Survival

	Era 1: 1/1/88-4/30/92			Era 2: 5/1/92-4/30/94			Overall: 1/1/88-4/30/94						
Time Point	No. of TX	Act. Rate (%)	Exp. Rate (%)	No. of TX	Act. Rate (%)	Exp. Rate (%)	No. of TX	No. <sup>1</sup> w/CFU	No. Failed	Act. Rate (%)	Exp. Rate (%)	Diff. (%)	p- <sup>2</sup> value
1 Month	5	40.0	94.7	6	100.0	92.7	11	11	3	72.7	93.6	-20.9	<0.01*
1 Year	5	20.0	86.0	6	100.0	84.0	11	11	4	63.6	84.9	-21.3	0.05*
Cond. <sup>3</sup> 3 Years	1	100.0	92.6				1	1	0	100.0	92.6	7.4	1.00
3 Years <sup>3</sup>		20.0	79.6										

Patient Survival

	Era 1: 1/1/88-4/30/92			Era 2: 5/1/92-4/30/94			Overall: 1/1/88-4/30/94						
Time Point	No. of Pts. <sup>4</sup>	Act. Rate (%)	Exp. Rate (%)	No. of Pts. <sup>4</sup>	Act. Rate (%)	Exp. Rate (%)	No. of Pts. <sup>4</sup>	No. <sup>1,5</sup> w/CFU	No. <sup>5</sup> Died	Act. Rate (%)	Exp. Rate (%)	Diff. (%)	p- <sup>2</sup> value
1 Month	5	40.0	95.0	6	100.0	93.1	11	11.0	3.0	72.7	93.9	-21.2	<0.01*
1 Year	5	20.0	86.6	6	100.0	84.4	11	11.0	4.0	63.6	85.4	-21.8	0.04*
Cond. <sup>3</sup> 3 Years	1	100.0	92.9				1	1.0	0.0	100.0	92.9	7.1	0.99
3 Years <sup>3</sup>		20.0	80.5										

Notes: <sup>1</sup> No. with complete follow-up (CFU) is the total of the number of patients (grafts) whose status was known during the specified time interval.

<sup>2</sup> A p-value followed by an \* indicates that the difference is statistically significant at the 0.05 level.

<sup>3</sup> Conditional 3 year survival rates are the survival rates conditional on survival at 1 year. These are computed based on transplants between 1/1/88 and 4/30/92. Three year survival rates are computed by multiplying the 1 year and the conditional 3 year survival rates.

<sup>4</sup> The numbers of patients in Era 1 and Era 2 do not necessarily add up to the number of patients in the overall period, due to repeat transplants in different eras for some patients.

<sup>5</sup> No. w/CFU or No. Died may be fractional if patients received more than one transplant at the program.

Source: UNOS OPTN/Scientific Registry data.

**Heart Transplants: January 1, 1988 - April 30, 1994**  
**Donor and Recipient Characteristics: Program and National Frequencies**

**North Carolina Baptist Hospital - Winston-Salem NC**  
**Provider Number 340047 (NCBG)**

		----- Program -----		--- National ---	
		Number	%	Number	%
<b>Total Transplants and Percentages</b>		<b>11</b>	<b>100.0</b>	<b>12627</b>	<b>100.0</b>
<b>Donor Age</b>	0-5	0	0.0	799	6.3
	6-10	0	0.0	274	2.2
	11-17	3	27.3	2029	16.1
	18-49	7	63.6	8923	70.7
	50-64	1	9.1	589	4.7
	65+	0	0.0	12	0.1
	Not Reported	0	0.0	1	0.0
<b>Donor Gender</b>	Female	4	36.4	3728	29.5
	Male	7	63.6	8899	70.5
<b>Donor Race</b>	White	9	81.8	10036	79.5
	Black	2	18.2	1263	10.0
	Hispanic	0	0.0	1143	9.1
	Asian	0	0.0	90	0.7
	Other	0	0.0	87	0.7
	Not Reported	0	0.0	8	0.1
<b>Recipient Age</b>	<1	0	0.0	549	4.3
	1-10	0	0.0	431	3.4
	11-17	0	0.0	358	2.8
	18-49	4	36.4	4493	35.6
	50-64	7	63.6	6373	50.5
	65+	0	0.0	423	3.3
<b>Recipient Gender</b>	Female	3	27.3	2761	21.9
	Male	8	72.7	9866	78.1
<b>Recipient Race</b>	White	10	90.9	10504	83.2
	Black	1	9.1	1206	9.6
	Hispanic	0	0.0	570	4.5
	Asian	0	0.0	125	1.0
	Other	0	0.0	216	1.7
	Not Reported	0	0.0	6	0.0

		----- Program -----		--- National ---	
		Number	%	Number	%
Previous Heart Transplant	No	11	100.0	12231	96.9
	Yes	0	0.0	344	2.7
	Not Reported	0	0.0	52	0.4
On Ventilator at Transplant	No	11	100.0	11892	94.2
	Yes	0	0.0	663	5.3
	Not Reported	0	0.0	72	0.6
On VAD at Transplant	No	11	100.0	12187	96.5
	Yes	0	0.0	366	2.9
	Not Reported	0	0.0	74	0.6
On IABP at Transplant	No	11	100.0	11754	93.1
	Yes	0	0.0	801	6.3
	Not Reported	0	0.0	72	0.6
Diagnosis at Transplant	Coronary Artery Disease	7	63.6	5222	41.4
	Cardiomyopathy	2	18.2	5779	45.8
	Eisenmenger's Syndrome/Congenital	0	0.0	933	7.4
	Valvular Heart Disease	2	18.2	476	3.8
	Other Diagnosis	0	0.0	183	1.4
	Not Reported	0	0.0	34	0.3
Medical Condition at Transplant	Not Hospitalized	10	90.9	5606	44.4
	Hospitalized	0	0.0	986	7.8
	In ICU	1	9.1	6019	47.7
	Not Reported	0	0.0	16	0.1
Cold Ischemia Time	Up to 2 hrs	2	18.2	3458	27.4
	> 2 - 2.5 hrs	3	27.3	2271	18.0
	> 2.5 - 3 hrs	4	36.4	2408	19.1
	> 3 - 3.5 hrs	1	9.1	1949	15.4
	> 3.5 hrs	0	0.0	2453	19.4
	Not Reported	1	9.1	88	0.7
Year of Transplant	1988	4	36.4	1649	13.1
	1989	1	9.1	1677	13.3
	1990	0	0.0	2071	16.4
	1991	0	0.0	2098	16.6
	1992	0	0.0	2145	17.0
	1993	2	18.2	2266	17.9
	1994	4	36.4	721	5.7

Source: UNOS OPTN/Scientific Registry data.

**Response From: North Carolina Baptist Hospital  
Medical Center Boulevard, Winston-Salem, NC 27157  
Provider Number 340047 (NCBG)**

April 25, 1997

The North Carolina Baptist Hospital supports UNOS' release of center specific survival statistics in the field of thoracic transplantation.

The current UNOS survival report is, however, not an accurate reflection of the existing thoracic transplant program at North Carolina Baptist Hospital. The current survival report data are derived from the period January 01, 1988 through April 30, 1994. During a part of this period, North Carolina Baptist Hospital had a heart transplant program which was voluntarily inactivated in 1989.

The current thoracic transplant program at North Carolina Baptist Hospital began with recruitment of a team specifically trained in heart transplantation from other centers. The program reapplied for UNOS approval and received it in mid-1993. The current program officially listed its first patient in September of 1993 and performed its first transplant in November, 1993. A total of 31 patients have been transplanted through April 1997 with a one, two, and three year survival of 100%. We feel that these numbers more accurately reflect the current commitment to thoracic transplantation at this center.

We encourage direct inquiry regarding our transplant programs, survival statistics and personnel.

Timothy E. Oaks, MD  
Director, Thoracic Transplantation

A handwritten signature in cursive script that reads "Timothy E. Oaks, MD".

## Heart Transplants: January 1, 1988 - April 30, 1994

## Survival Report for Carolinas Medical Center - Charlotte NC

Provider Number 340113 (NCCM)

Graft Survival

	Era 1: 1/1/88-4/30/92			Era 2: 5/1/92-4/30/94			Overall: 1/1/88-4/30/94						
Time Point	No. of TX	Act. Rate (%)	Exp. Rate (%)	No. of TX	Act. Rate (%)	Exp. Rate (%)	No. of TX	No. <sup>1</sup> w/CFU	No. Failed	Act. Rate (%)	Exp. Rate (%)	Diff. (%)	p- <sup>2</sup> value
1 Month	81	91.4	92.1	46	89.1	92.3	127	127	12	90.6	92.2	-1.7	0.48
1 Year	81	79.0	82.6	46	80.4	82.2	127	127	26	79.5	82.5	-2.9	0.37
Cond. <sup>3</sup> 3 Years	64	89.1	90.2				64	64	7	89.1	90.2	-1.2	0.75
3 Years <sup>3</sup>		70.4	74.5										

Patient Survival

	Era 1: 1/1/88-4/30/92			Era 2: 5/1/92-4/30/94			Overall: 1/1/88-4/30/94						
Time Point	No. of Pts. <sup>4</sup>	Act. Rate (%)	Exp. Rate (%)	No. of Pts. <sup>4</sup>	Act. Rate (%)	Exp. Rate (%)	No. of Pts. <sup>4</sup>	No. <sup>1,5</sup> w/CFU	No. <sup>5</sup> Died	Act. Rate (%)	Exp. Rate (%)	Diff. (%)	p- <sup>2</sup> value
1 Month	81	91.4	92.5	46	89.1	92.7	127	127.0	12.0	90.6	92.6	-2.0	0.38
1 Year	81	79.0	83.3	46	80.4	82.8	127	127.0	26.0	79.5	83.1	-3.6	0.27
Cond. <sup>3</sup> 3 Years	64	89.1	90.7				64	64.0	7.0	89.1	90.7	-1.7	0.64
3 Years <sup>3</sup>		70.4	75.6										

Notes: <sup>1</sup> No. with complete follow-up (CFU) is the total of the number of patients (grafts) whose status was known during the specified time interval.

<sup>2</sup> A p-value followed by an \* indicates that the difference is statistically significant at the 0.05 level.

<sup>3</sup> Conditional 3 year survival rates are the survival rates conditional on survival at 1 year. These are computed based on transplants between 1/1/88 and 4/30/92. Three year survival rates are computed by multiplying the 1 year and the conditional 3 year survival rates.

<sup>4</sup> The numbers of patients in Era 1 and Era 2 do not necessarily add up to the number of patients in the overall period, due to repeat transplants in different eras for some patients.

<sup>5</sup> No. w/CFU or No. Died may be fractional if patients received more than one transplant at the program.

Source: UNOS OPTN/Scientific Registry data.

**Heart Transplants: January 1, 1988 - April 30, 1994**  
**Donor and Recipient Characteristics: Program and National Frequencies**

**Carolinas Medical Center - Charlotte NC**  
**Provider Number 340113 (NCCM)**

		----- Program -----		--- National ---	
		Number	%	Number	%
<b>Total Transplants and Percentages</b>		<b>127</b>	<b>100.0</b>	<b>12627</b>	<b>100.0</b>
<b>Donor Age</b>	0-5	5	3.9	799	6.3
	6-10	1	0.8	274	2.2
	11-17	18	14.2	2029	16.1
	18-49	88	69.3	8923	70.7
	50-64	14	11.0	589	4.7
	65+	1	0.8	12	0.1
	Not Reported	0	0.0	1	0.0
<b>Donor Gender</b>	Female	36	28.3	3728	29.5
	Male	91	71.7	8899	70.5
<b>Donor Race</b>	White	109	85.8	10036	79.5
	Black	16	12.6	1263	10.0
	Hispanic	2	1.6	1143	9.1
	Asian	0	0.0	90	0.7
	Other	0	0.0	87	0.7
	Not Reported	0	0.0	8	0.1
<b>Recipient Age</b>	<1	3	2.4	549	4.3
	1-10	3	2.4	431	3.4
	11-17	3	2.4	358	2.8
	18-49	52	40.9	4493	35.6
	50-64	64	50.4	6373	50.5
	65+	2	1.6	423	3.3
<b>Recipient Gender</b>	Female	39	30.7	2761	21.9
	Male	88	69.3	9866	78.1
<b>Recipient Race</b>	White	106	83.5	10504	83.2
	Black	20	15.7	1206	9.6
	Hispanic	0	0.0	570	4.5
	Asian	0	0.0	125	1.0
	Other	1	0.8	216	1.7
	Not Reported	0	0.0	6	0.0

		----- Program -----		--- National ---	
		Number	%	Number	%
Previous Heart Transplant	No	127	100.0	12231	96.9
	Yes	0	0.0	344	2.7
	Not Reported	0	0.0	52	0.4
On Ventilator at Transplant	No	122	96.1	11892	94.2
	Yes	5	3.9	663	5.3
	Not Reported	0	0.0	72	0.6
On VAD at Transplant	No	126	99.2	12187	96.5
	Yes	1	0.8	366	2.9
	Not Reported	0	0.0	74	0.6
On IABP at Transplant	No	126	99.2	11754	93.1
	Yes	1	0.8	801	6.3
	Not Reported	0	0.0	72	0.6
Diagnosis at Transplant	Coronary Artery Disease	57	44.9	5222	41.4
	Cardiomyopathy	61	48.0	5779	45.8
	Eisenmenger's Syndrome/Congenital	3	2.4	933	7.4
	Valvular Heart Disease	4	3.1	476	3.8
	Other Diagnosis	2	1.6	183	1.4
	Not Reported	0	0.0	34	0.3
Medical Condition at Transplant	Not Hospitalized	72	56.7	5606	44.4
	Hospitalized	20	15.7	986	7.8
	In ICU	35	27.6	6019	47.7
	Not Reported	0	0.0	16	0.1
Cold Ischemia Time	Up to 2 hrs	45	35.4	3458	27.4
	> 2 - 2.5 hrs	19	15.0	2271	18.0
	> 2.5 - 3 hrs	13	10.2	2408	19.1
	> 3 - 3.5 hrs	20	15.7	1949	15.4
	> 3.5 hrs	30	23.6	2453	19.4
	Not Reported	0	0.0	88	0.7
Year of Transplant	1988	17	13.4	1649	13.1
	1989	16	12.6	1677	13.3
	1990	24	18.9	2071	16.4
	1991	18	14.2	2098	16.6
	1992	26	20.5	2145	17.0
	1993	19	15.0	2266	17.9
	1994	7	5.5	721	5.7

Source: UNOS OPTN/Scientific Registry data.



## Heart Transplants: January 1, 1988 - April 30, 1994

Survival Report for Duke University Medical Center - Durham NC  
Provider Number 340030 (NCDU)Graft Survival

	Era 1: 1/1/88-4/30/92			Era 2: 5/1/92-4/30/94			Overall: 1/1/88-4/30/94						
Time Point	No. of TX	Act. Rate (%)	Exp. Rate (%)	No. of TX	Act. Rate (%)	Exp. Rate (%)	No. of TX	No. <sup>1</sup> w/CFU	No. Failed	Act. Rate (%)	Exp. Rate (%)	Diff. (%)	p- <sup>2</sup> value
1 Month	49	87.8	91.9	34	94.1	92.7	83	83	8	90.4	92.2	-1.9	0.52
1 Year	49	85.7	82.7	34	94.1	83.0	83	83	9	89.2	82.8	6.4	0.12
Cond. <sup>3</sup> 3 Years	42	95.2	90.4				42	42	2	95.2	90.4	4.9	0.28
3 Years <sup>3</sup>		81.6	74.7										

Patient Survival

	Era 1: 1/1/88-4/30/92			Era 2: 5/1/92-4/30/94			Overall: 1/1/88-4/30/94						
Time Point	No. of Pts. <sup>4</sup>	Act. Rate (%)	Exp. Rate (%)	No. of Pts. <sup>4</sup>	Act. Rate (%)	Exp. Rate (%)	No. of Pts. <sup>4</sup>	No. <sup>1,5</sup> w/CFU	No. <sup>5</sup> Died	Act. Rate (%)	Exp. Rate (%)	Diff. (%)	p- <sup>2</sup> value
1 Month	49	87.8	92.3	34	94.1	92.9	83	83.0	8.0	90.4	92.6	-2.2	0.44
1 Year	49	85.7	83.3	34	94.1	83.5	83	83.0	9.0	89.2	83.4	5.8	0.15
Cond. <sup>3</sup> 3 Years	42	95.2	90.8				42	42.0	2.0	95.2	90.8	4.4	0.32
3 Years <sup>3</sup>		81.6	75.7										

Notes: <sup>1</sup> No. with complete follow-up (CFU) is the total of the number of patients (grafts) whose status was known during the specified time interval.

<sup>2</sup> A p-value followed by an \* indicates that the difference is statistically significant at the 0.05 level.

<sup>3</sup> Conditional 3 year survival rates are the survival rates conditional on survival at 1 year. These are computed based on transplants between 1/1/88 and 4/30/92. Three year survival rates are computed by multiplying the 1 year and the conditional 3 year survival rates.

<sup>4</sup> The numbers of patients in Era 1 and Era 2 do not necessarily add up to the number of patients in the overall period, due to repeat transplants in different eras for some patients.

<sup>5</sup> No. w/CFU or No. Died may be fractional if patients received more than one transplant at the program.

Source: UNOS OPTN/Scientific Registry data.

**Heart Transplants: January 1, 1988 - April 30, 1994**  
**Donor and Recipient Characteristics: Program and National Frequencies**

**Duke University Medical Center - Durham NC**  
**Provider Number 340030 (NCDU)**

		----- Program -----		--- National ---	
		Number	%	Number	%
<b>Total Transplants and Percentages</b>		<b>83</b>	<b>100.0</b>	<b>12627</b>	<b>100.0</b>
<b>Donor Age</b>	0-5	2	2.4	799	6.3
	6-10	1	1.2	274	2.2
	11-17	11	13.3	2029	16.1
	18-49	67	80.7	8923	70.7
	50-64	2	2.4	589	4.7
	65+	0	0.0	12	0.1
	Not Reported	0	0.0	1	0.0
<b>Donor Gender</b>	Female	15	18.1	3728	29.5
	Male	68	81.9	8899	70.5
<b>Donor Race</b>	White	67	80.7	10036	79.5
	Black	14	16.9	1263	10.0
	Hispanic	1	1.2	1143	9.1
	Asian	1	1.2	90	0.7
	Other	0	0.0	87	0.7
	Not Reported	0	0.0	8	0.1
<b>Recipient Age</b>	<1	2	2.4	549	4.3
	1-10	1	1.2	431	3.4
	11-17	1	1.2	358	2.8
	18-49	37	44.6	4493	35.6
	50-64	42	50.6	6373	50.5
	65+	0	0.0	423	3.3
<b>Recipient Gender</b>	Female	25	30.1	2761	21.9
	Male	58	69.9	9866	78.1
<b>Recipient Race</b>	White	67	80.7	10504	83.2
	Black	15	18.1	1206	9.6
	Hispanic	0	0.0	570	4.5
	Asian	0	0.0	125	1.0
	Other	1	1.2	216	1.7
	Not Reported	0	0.0	6	0.0

		----- Program -----		--- National ---	
		Number	%	Number	%
<b>Previous Heart Transplant</b>	No	83	100.0	12231	96.9
	Yes	0	0.0	344	2.7
	Not Reported	0	0.0	52	0.4
<b>On Ventilator at Transplant</b>	No	78	94.0	11892	94.2
	Yes	5	6.0	663	5.3
	Not Reported	0	0.0	72	0.6
<b>On VAD at Transplant</b>	No	82	98.8	12187	96.5
	Yes	1	1.2	366	2.9
	Not Reported	0	0.0	74	0.6
<b>On IABP at Transplant</b>	No	72	86.7	11754	93.1
	Yes	11	13.3	801	6.3
	Not Reported	0	0.0	72	0.6
<b>Diagnosis at Transplant</b>	Coronary Artery Disease	39	47.0	5222	41.4
	Cardiomyopathy	38	45.8	5779	45.8
	Eisenmenger's Syndrome/Congenital	3	3.6	933	7.4
	Valvular Heart Disease	3	3.6	476	3.8
	Other Diagnosis	0	0.0	183	1.4
	Not Reported	0	0.0	34	0.3
<b>Medical Condition at Transplant</b>	Not Hospitalized	9	10.8	5606	44.4
	Hospitalized	2	2.4	986	7.8
	In ICU	72	86.7	6019	47.7
	Not Reported	0	0.0	16	0.1
<b>Cold Ischemia Time</b>	Up to 2 hrs	26	31.3	3458	27.4
	> 2 - 2.5 hrs	18	21.7	2271	18.0
	> 2.5 - 3 hrs	18	21.7	2408	19.1
	> 3 - 3.5 hrs	14	16.9	1949	15.4
	> 3.5 hrs	7	8.4	2453	19.4
	Not Reported	0	0.0	88	0.7
<b>Year of Transplant</b>	1988	13	15.7	1649	13.1
	1989	8	9.6	1677	13.3
	1990	16	19.3	2071	16.4
	1991	10	12.0	2098	16.6
	1992	8	9.6	2145	17.0
	1993	20	24.1	2266	17.9
	1994	8	9.6	721	5.7

Source: UNOS OPTN/Scientific Registry data.

## Heart Transplants: January 1, 1988 - April 30, 1994

Survival Report for Pitt County Memorial Hospital - Greenville NC  
Provider Number 340040 (NCEC)Graft Survival

	Era 1: 1/1/88-4/30/92			Era 2: 5/1/92-4/30/94			Overall: 1/1/88-4/30/94						
Time Point	No. of TX	Act. Rate (%)	Exp. Rate (%)	No. of TX	Act. Rate (%)	Exp. Rate (%)	No. of TX	No. <sup>1</sup> w/CFU	No. Failed	Act. Rate (%)	Exp. Rate (%)	Diff. (%)	p- <sup>2</sup> value
1 Month	5	80.0	92.6	3	100.0	91.0	8	8	1	87.5	92.0	-4.5	0.64
1 Year	5	40.0	81.4	3	100.0	79.6	8	8	3	62.5	80.7	-18.2	0.19
Cond. <sup>3</sup> 3 Years	2	50.0	86.1				2	2	1	50.0	86.1	-36.1	0.26
3 Years <sup>3</sup>		20.0	70.1										

Patient Survival

	Era 1: 1/1/88-4/30/92			Era 2: 5/1/92-4/30/94			Overall: 1/1/88-4/30/94						
Time Point	No. of Pts. <sup>4</sup>	Act. Rate (%)	Exp. Rate (%)	No. of Pts. <sup>4</sup>	Act. Rate (%)	Exp. Rate (%)	No. of Pts. <sup>4</sup>	No. <sup>1,5</sup> w/CFU	No. <sup>5</sup> Died	Act. Rate (%)	Exp. Rate (%)	Diff. (%)	p- <sup>2</sup> value
1 Month	5	80.0	92.6	3	100.0	91.2	8	8.0	1.0	87.5	92.1	-4.6	0.63
1 Year	5	40.0	82.1	3	100.0	79.7	8	8.0	3.0	62.5	81.2	-18.7	0.17
Cond. <sup>3</sup> 3 Years	2	50.0	86.6				2	2.0	1.0	50.0	86.6	-36.6	0.25
3 Years <sup>3</sup>		20.0	71.1										

- Notes: <sup>1</sup> No. with complete follow-up (CFU) is the total of the number of patients (grafts) whose status was known during the specified time interval.
- <sup>2</sup> A p-value followed by an \* indicates that the difference is statistically significant at the 0.05 level.
- <sup>3</sup> Conditional 3 year survival rates are the survival rates conditional on survival at 1 year. These are computed based on transplants between 1/1/88 and 4/30/92. Three year survival rates are computed by multiplying the 1 year and the conditional 3 year survival rates.
- <sup>4</sup> The numbers of patients in Era 1 and Era 2 do not necessarily add up to the number of patients in the overall period, due to repeat transplants in different eras for some patients.
- <sup>5</sup> No. w/CFU or No. Died may be fractional if patients received more than one transplant at the program.

Source: UNOS OPTN/Scientific Registry data.

**Heart Transplants: January 1, 1988 - April 30, 1994**  
**Donor and Recipient Characteristics: Program and National Frequencies**

**Pitt County Memorial Hospital - Greenville NC**  
**Provider Number 340040 (NCEC)**

		----- Program -----		--- National ---	
		Number	%	Number	%
<b>Total Transplants and Percentages</b>		<b>8</b>	<b>100.0</b>	<b>12627</b>	<b>100.0</b>
<b>Donor Age</b>	0-5	0	0.0	799	6.3
	6-10	0	0.0	274	2.2
	11-17	2	25.0	2029	16.1
	18-49	5	62.5	8923	70.7
	50-64	1	12.5	589	4.7
	65+	0	0.0	12	0.1
	Not Reported	0	0.0	1	0.0
<b>Donor Gender</b>	Female	1	12.5	3728	29.5
	Male	7	87.5	8899	70.5
<b>Donor Race</b>	White	8	100.0	10036	79.5
	Black	0	0.0	1263	10.0
	Hispanic	0	0.0	1143	9.1
	Asian	0	0.0	90	0.7
	Other	0	0.0	87	0.7
	Not Reported	0	0.0	8	0.1
<b>Recipient Age</b>	<1	0	0.0	549	4.3
	1-10	0	0.0	431	3.4
	11-17	0	0.0	358	2.8
	18-49	2	25.0	4493	35.6
	50-64	5	62.5	6373	50.5
	65+	1	12.5	423	3.3
<b>Recipient Gender</b>	Female	1	12.5	2761	21.9
	Male	7	87.5	9866	78.1
<b>Recipient Race</b>	White	5	62.5	10504	83.2
	Black	3	37.5	1206	9.6
	Hispanic	0	0.0	570	4.5
	Asian	0	0.0	125	1.0
	Other	0	0.0	216	1.7
	Not Reported	0	0.0	6	0.0

		----- Program -----		--- National ---	
		Number	%	Number	%
<b>Previous Heart Transplant</b>	No	8	100.0	12231	96.9
	Yes	0	0.0	344	2.7
	Not Reported	0	0.0	52	0.4
<b>On Ventilator at Transplant</b>	No	7	87.5	11892	94.2
	Yes	1	12.5	663	5.3
	Not Reported	0	0.0	72	0.6
<b>On VAD at Transplant</b>	No	8	100.0	12187	96.5
	Yes	0	0.0	366	2.9
	Not Reported	0	0.0	74	0.6
<b>On IABP at Transplant</b>	No	6	75.0	11754	93.1
	Yes	2	25.0	801	6.3
	Not Reported	0	0.0	72	0.6
<b>Diagnosis at Transplant</b>	Coronary Artery Disease	4	50.0	5222	41.4
	Cardiomyopathy	4	50.0	5779	45.8
	Eisenmenger's Syndrome/Congenital	0	0.0	933	7.4
	Valvular Heart Disease	0	0.0	476	3.8
	Other Diagnosis	0	0.0	183	1.4
	Not Reported	0	0.0	34	0.3
<b>Medical Condition at Transplant</b>	Not Hospitalized	2	25.0	5606	44.4
	Hospitalized	1	12.5	986	7.8
	In ICU	5	62.5	6019	47.7
	Not Reported	0	0.0	16	0.1
<b>Cold Ischemia Time</b>	Up to 2 hrs	1	12.5	3458	27.4
	> 2 - 2.5 hrs	0	0.0	2271	18.0
	> 2.5 - 3 hrs	3	37.5	2408	19.1
	> 3 - 3.5 hrs	3	37.5	1949	15.4
	> 3.5 hrs	1	12.5	2453	19.4
	Not Reported	0	0.0	88	0.7
<b>Year of Transplant</b>	1988	1	12.5	1649	13.1
	1989	0	0.0	1677	13.3
	1990	4	50.0	2071	16.4
	1991	0	0.0	2098	16.6
	1992	0	0.0	2145	17.0
	1993	3	37.5	2266	17.9
	1994	0	0.0	721	5.7

Source: UNOS OPTN/Scientific Registry data.

## Heart Transplants: January 1, 1988 - April 30, 1994

Survival Report for University of North Carolina Hospitals - Chapel Hill NC  
Provider Number 340061 (NCMH)Graft Survival

	Era 1: 1/1/88-4/30/92			Era 2: 5/1/92-4/30/94			Overall: 1/1/88-4/30/94						
Time Point	No. of TX	Act. Rate (%)	Exp. Rate (%)	No. of TX	Act. Rate (%)	Exp. Rate (%)	No. of TX	No. <sup>1</sup> w/CFU	No. Failed	Act. Rate (%)	Exp. Rate (%)	Diff. (%)	p- <sup>2</sup> value
1 Month	38	97.4	91.8	31	93.4	89.5	69	68	3	95.6	90.7	4.9	0.15
1 Year	38	78.9	81.0	31	93.3	79.1	69	68	10	85.3	80.2	5.1	0.28
Cond. <sup>3</sup> 3 Years	30	90.0	89.9				30	29	3	90.0	89.9	0.1	0.98
3 Years <sup>3</sup>		71.0	72.8										

Patient Survival

	Era 1: 1/1/88-4/30/92			Era 2: 5/1/92-4/30/94			Overall: 1/1/88-4/30/94						
Time Point	No. of Pts. <sup>4</sup>	Act. Rate (%)	Exp. Rate (%)	No. of Pts. <sup>4</sup>	Act. Rate (%)	Exp. Rate (%)	No. of Pts. <sup>4</sup>	No. <sup>1,5</sup> w/CFU	No. <sup>5</sup> Died	Act. Rate (%)	Exp. Rate (%)	Diff. (%)	p- <sup>2</sup> value
1 Month	38	97.4	92.0	31	93.4	89.9	69	68.0	3.0	95.6	91.1	4.5	0.18
1 Year	38	78.9	81.7	31	93.3	79.8	69	68.0	10.0	85.3	80.8	4.5	0.34
Cond. <sup>3</sup> 3 Years	30	90.0	90.2				30	29.0	3.0	90.0	90.2	-0.2	0.97
3 Years <sup>3</sup>		71.0	73.6										

Notes: <sup>1</sup> No. with complete follow-up (CFU) is the total of the number of patients (grafts) whose status was known during the specified time interval.

<sup>2</sup> A p-value followed by an \* indicates that the difference is statistically significant at the 0.05 level.

<sup>3</sup> Conditional 3 year survival rates are the survival rates conditional on survival at 1 year. These are computed based on transplants between 1/1/88 and 4/30/92. Three year survival rates are computed by multiplying the 1 year and the conditional 3 year survival rates.

<sup>4</sup> The numbers of patients in Era 1 and Era 2 do not necessarily add up to the number of patients in the overall period, due to repeat transplants in different eras for some patients.

<sup>5</sup> No. w/CFU or No. Died may be fractional if patients received more than one transplant at the program.

Source: UNOS OPTN/Scientific Registry data.



**Heart Transplants: January 1, 1988 - April 30, 1994**  
**Donor and Recipient Characteristics: Program and National Frequencies**

**University of North Carolina Hospitals - Chapel Hill NC**  
**Provider Number 340061 (NCMH)**

		----- Program -----		--- National ---	
		Number	%	Number	%
<b>Total Transplants and Percentages</b>		<b>69</b>	<b>100.0</b>	<b>12627</b>	<b>100.0</b>
<b>Donor Age</b>	0-5	8	11.6	799	6.3
	6-10	1	1.4	274	2.2
	11-17	10	14.5	2029	16.1
	18-49	47	68.1	8923	70.7
	50-64	3	4.3	589	4.7
	65+	0	0.0	12	0.1
	Not Reported	0	0.0	1	0.0
<b>Donor Gender</b>	Female	15	21.7	3728	29.5
	Male	54	78.3	8899	70.5
<b>Donor Race</b>	White	57	82.6	10036	79.5
	Black	9	13.0	1263	10.0
	Hispanic	2	2.9	1143	9.1
	Asian	0	0.0	90	0.7
	Other	1	1.4	87	0.7
	Not Reported	0	0.0	8	0.1
<b>Recipient Age</b>	<1	3	4.3	549	4.3
	1-10	5	7.2	431	3.4
	11-17	0	0.0	358	2.8
	18-49	24	34.8	4493	35.6
	50-64	33	47.8	6373	50.5
	65+	4	5.8	423	3.3
<b>Recipient Gender</b>	Female	22	31.9	2761	21.9
	Male	47	68.1	9866	78.1
<b>Recipient Race</b>	White	51	73.9	10504	83.2
	Black	18	26.1	1206	9.6
	Hispanic	0	0.0	570	4.5
	Asian	0	0.0	125	1.0
	Other	0	0.0	216	1.7
	Not Reported	0	0.0	6	0.0

		----- Program -----		--- National ---	
		Number	%	Number	%
<b>Previous Heart Transplant</b>	No	69	100.0	12231	96.9
	Yes	0	0.0	344	2.7
	Not Reported	0	0.0	52	0.4
<b>On Ventilator at Transplant</b>	No	64	92.8	11892	94.2
	Yes	5	7.2	663	5.3
	Not Reported	0	0.0	72	0.6
<b>On VAD at Transplant</b>	No	69	100.0	12187	96.5
	Yes	0	0.0	366	2.9
	Not Reported	0	0.0	74	0.6
<b>On IABP at Transplant</b>	No	67	97.1	11754	93.1
	Yes	2	2.9	801	6.3
	Not Reported	0	0.0	72	0.6
<b>Diagnosis at Transplant</b>	Coronary Artery Disease	25	36.2	5222	41.4
	Cardiomyopathy	36	52.2	5779	45.8
	Eisenmenger's Syndrome/Congenital	6	8.7	933	7.4
	Valvular Heart Disease	0	0.0	476	3.8
	Other Diagnosis	2	2.9	183	1.4
	Not Reported	0	0.0	34	0.3
<b>Medical Condition at Transplant</b>	Not Hospitalized	12	17.4	5606	44.4
	Hospitalized	3	4.3	986	7.8
	In ICU	54	78.3	6019	47.7
	Not Reported	0	0.0	16	0.1
<b>Cold Ischemia Time</b>	Up to 2 hrs	5	7.2	3458	27.4
	> 2 - 2.5 hrs	8	11.6	2271	18.0
	> 2.5 - 3 hrs	9	13.0	2408	19.1
	> 3 - 3.5 hrs	15	21.7	1949	15.4
	> 3.5 hrs	32	46.4	2453	19.4
	Not Reported	0	0.0	88	0.7
<b>Year of Transplant</b>	1988	8	11.6	1649	13.1
	1989	5	7.2	1677	13.3
	1990	12	17.4	2071	16.4
	1991	6	8.7	2098	16.6
	1992	20	29.0	2145	17.0
	1993	11	15.9	2266	17.9
	1994	7	10.1	721	5.7

Source: UNOS OPTN/Scientific Registry data.

## Heart Transplants: January 1, 1988 - April 30, 1994

Survival Report for Bryan Memorial Hospital - Lincoln NE  
Provider Number 280003 (NEBM)Graft Survival

	Era 1: 1/1/88-4/30/92			Era 2: 5/1/92-4/30/94			Overall: 1/1/88-4/30/94						
Time Point	No. of TX	Act. Rate (%)	Exp. Rate (%)	No. of TX	Act. Rate (%)	Exp. Rate (%)	No. of TX	No. <sup>1</sup> w/CFU	No. Failed	Act. Rate (%)	Exp. Rate (%)	Diff. (%)	p- <sup>2</sup> value
1 Month	32	93.8	93.3	18	88.9	93.9	50	50	4	92.0	93.5	-1.5	0.67
1 Year	32	87.5	84.3	18	88.9	85.9	50	50	6	88.0	84.9	3.1	0.53
Cond. <sup>3</sup> 3 Years	28	92.9	91.4				28	28	2	92.9	91.4	1.5	0.78
3 Years <sup>3</sup>		81.3	77.0										

Patient Survival

	Era 1: 1/1/88-4/30/92			Era 2: 5/1/92-4/30/94			Overall: 1/1/88-4/30/94						
Time Point	No. of Pts. <sup>4</sup>	Act. Rate (%)	Exp. Rate (%)	No. of Pts. <sup>4</sup>	Act. Rate (%)	Exp. Rate (%)	No. of Pts. <sup>4</sup>	No. <sup>1,5</sup> w/CFU	No. <sup>5</sup> Died	Act. Rate (%)	Exp. Rate (%)	Diff. (%)	p- <sup>2</sup> value
1 Month	32	93.8	93.6	18	88.9	94.2	50	50.0	4.0	92.0	93.8	-1.8	0.59
1 Year	32	87.5	84.9	18	88.9	86.4	50	50.0	6.0	88.0	85.5	2.5	0.60
Cond. <sup>3</sup> 3 Years	28	92.9	91.8				28	28.0	2.0	92.9	91.8	1.1	0.84
3 Years <sup>3</sup>		81.3	77.9										

Notes: <sup>1</sup> No. with complete follow-up (CFU) is the total of the number of patients (grafts) whose status was known during the specified time interval.

<sup>2</sup> A p-value followed by an \* indicates that the difference is statistically significant at the 0.05 level.

<sup>3</sup> Conditional 3 year survival rates are the survival rates conditional on survival at 1 year. These are computed based on transplants between 1/1/88 and 4/30/92. Three year survival rates are computed by multiplying the 1 year and the conditional 3 year survival rates.

<sup>4</sup> The numbers of patients in Era 1 and Era 2 do not necessarily add up to the number of patients in the overall period, due to repeat transplants in different eras for some patients.

<sup>5</sup> No. w/CFU or No. Died may be fractional if patients received more than one transplant at the program.

Source: UNOS OPTN/Scientific Registry data.

**Heart Transplants: January 1, 1988 - April 30, 1994**  
**Donor and Recipient Characteristics: Program and National Frequencies**

**Bryan Memorial Hospital - Lincoln NE**  
**Provider Number 280003 (NEBM)**

		----- Program -----		--- National ---	
		Number	%	Number	%
<b>Total Transplants and Percentages</b>		<b>50</b>	<b>100.0</b>	<b>12627</b>	<b>100.0</b>
<b>Donor Age</b>	0-5	0	0.0	799	6.3
	6-10	0	0.0	274	2.2
	11-17	8	16.0	2029	16.1
	18-49	38	76.0	8923	70.7
	50-64	4	8.0	589	4.7
	65+	0	0.0	12	0.1
	Not Reported	0	0.0	1	0.0
<b>Donor Gender</b>	Female	14	28.0	3728	29.5
	Male	36	72.0	8899	70.5
<b>Donor Race</b>	White	45	90.0	10036	79.5
	Black	5	10.0	1263	10.0
	Hispanic	0	0.0	1143	9.1
	Asian	0	0.0	90	0.7
	Other	0	0.0	87	0.7
	Not Reported	0	0.0	8	0.1
<b>Recipient Age</b>	<1	0	0.0	549	4.3
	1-10	0	0.0	431	3.4
	11-17	0	0.0	358	2.8
	18-49	20	40.0	4493	35.6
	50-64	29	58.0	6373	50.5
	65+	1	2.0	423	3.3
<b>Recipient Gender</b>	Female	10	20.0	2761	21.9
	Male	40	80.0	9866	78.1
<b>Recipient Race</b>	White	49	98.0	10504	83.2
	Black	0	0.0	1206	9.6
	Hispanic	1	2.0	570	4.5
	Asian	0	0.0	125	1.0
	Other	0	0.0	216	1.7
	Not Reported	0	0.0	6	0.0

		----- Program -----		--- National ---	
		Number	%	Number	%
<b>Previous Heart Transplant</b>	No	50	100.0	12231	96.9
	Yes	0	0.0	344	2.7
	Not Reported	0	0.0	52	0.4
<b>On Ventilator at Transplant</b>	No	49	98.0	11892	94.2
	Yes	1	2.0	663	5.3
	Not Reported	0	0.0	72	0.6
<b>On VAD at Transplant</b>	No	50	100.0	12187	96.5
	Yes	0	0.0	366	2.9
	Not Reported	0	0.0	74	0.6
<b>On IABP at Transplant</b>	No	46	92.0	11754	93.1
	Yes	4	8.0	801	6.3
	Not Reported	0	0.0	72	0.6
<b>Diagnosis at Transplant</b>	Coronary Artery Disease	20	40.0	5222	41.4
	Cardiomyopathy	27	54.0	5779	45.8
	Eisenmenger's Syndrome/Congenital	0	0.0	933	7.4
	Valvular Heart Disease	3	6.0	476	3.8
	Other Diagnosis	0	0.0	183	1.4
	Not Reported	0	0.0	34	0.3
<b>Medical Condition at Transplant</b>	Not Hospitalized	29	58.0	5606	44.4
	Hospitalized	2	4.0	986	7.8
	In ICU	19	38.0	6019	47.7
	Not Reported	0	0.0	16	0.1
<b>Cold Ischemia Time</b>	Up to 2 hrs	19	38.0	3458	27.4
	> 2 - 2.5 hrs	17	34.0	2271	18.0
	> 2.5 - 3 hrs	10	20.0	2408	19.1
	> 3 - 3.5 hrs	3	6.0	1949	15.4
	> 3.5 hrs	1	2.0	2453	19.4
	Not Reported	0	0.0	88	0.7
<b>Year of Transplant</b>	1988	7	14.0	1649	13.1
	1989	6	12.0	1677	13.3
	1990	8	16.0	2071	16.4
	1991	8	16.0	2098	16.6
	1992	9	18.0	2145	17.0
	1993	11	22.0	2266	17.9
	1994	1	2.0	721	5.7

Source: UNOS OPTN/Scientific Registry data.

## Heart Transplants: January 1, 1988 - April 30, 1994

Survival Report for Bishop Clarkson Memorial Hospital - Omaha NE  
Provider Number 280088 (NECM)Graft Survival

	Era 1: 1/1/88-4/30/92			Era 2: 5/1/92-4/30/94			Overall: 1/1/88-4/30/94						
Time Point	No. of TX	Act. Rate (%)	Exp. Rate (%)	No. of TX	Act. Rate (%)	Exp. Rate (%)	No. of TX	No. <sup>1</sup> w/CFU	No. Failed	Act. Rate (%)	Exp. Rate (%)	Diff. (%)	p- <sup>2</sup> value
1 Month	1	100.0	87.0				1	1	0	100.0	87.0	13.0	1.00
1 Year	1	100.0	69.2				1	1	0	100.0	69.2	30.8	1.00
Cond. <sup>3</sup> 3 Years	1	100.0	86.8				1	1	0	100.0	86.8	13.2	1.00
3 Years <sup>3</sup>		100.0	60.1										

Patient Survival

	Era 1: 1/1/88-4/30/92			Era 2: 5/1/92-4/30/94			Overall: 1/1/88-4/30/94						
Time Point	No. of Pts. <sup>4</sup>	Act. Rate (%)	Exp. Rate (%)	No. of Pts. <sup>4</sup>	Act. Rate (%)	Exp. Rate (%)	No. of Pts. <sup>4</sup>	No. <sup>1,5</sup> w/CFU	No. <sup>5</sup> Died	Act. Rate (%)	Exp. Rate (%)	Diff. (%)	p- <sup>2</sup> value
1 Month	1	100.0	89.2				1	1.0	0.0	100.0	89.2	10.8	1.00
1 Year	1	100.0	70.8				1	1.0	0.0	100.0	70.8	29.2	1.00
Cond. <sup>3</sup> 3 Years	1	100.0	86.4				1	1.0	0.0	100.0	86.4	13.6	1.00
3 Years <sup>3</sup>		100.0	61.2										

Notes: <sup>1</sup> No. with complete follow-up (CFU) is the total of the number of patients (grafts) whose status was known during the specified time interval.

<sup>2</sup> A p-value followed by an \* indicates that the difference is statistically significant at the 0.05 level.

<sup>3</sup> Conditional 3 year survival rates are the survival rates conditional on survival at 1 year. These are computed based on transplants between 1/1/88 and 4/30/92. Three year survival rates are computed by multiplying the 1 year and the conditional 3 year survival rates.

<sup>4</sup> The numbers of patients in Era 1 and Era 2 do not necessarily add up to the number of patients in the overall period, due to repeat transplants in different eras for some patients.

<sup>5</sup> No. w/CFU or No. Died may be fractional if patients received more than one transplant at the program.

Source: UNOS OPTN/Scientific Registry data.

**Heart Transplants: January 1, 1988 - April 30, 1994**  
**Donor and Recipient Characteristics: Program and National Frequencies**

**Bishop Clarkson Memorial Hospital - Omaha NE**  
**Provider Number 280088 (NECM)**

		---- Program ----		--- National ---	
		Number	%	Number	%
<b>Total Transplants and Percentages</b>		<b>1</b>	<b>100.0</b>	<b>12627</b>	<b>100.0</b>
<b>Donor Age</b>	0-5	0	0.0	799	6.3
	6-10	0	0.0	274	2.2
	11-17	1	100.0	2029	16.1
	18-49	0	0.0	8923	70.7
	50-64	0	0.0	589	4.7
	65+	0	0.0	12	0.1
	Not Reported	0	0.0	1	0.0
<b>Donor Gender</b>	Female	0	0.0	3728	29.5
	Male	1	100.0	8899	70.5
<b>Donor Race</b>	White	1	100.0	10036	79.5
	Black	0	0.0	1263	10.0
	Hispanic	0	0.0	1143	9.1
	Asian	0	0.0	90	0.7
	Other	0	0.0	87	0.7
	Not Reported	0	0.0	8	0.1
<b>Recipient Age</b>	<1	0	0.0	549	4.3
	1-10	0	0.0	431	3.4
	11-17	0	0.0	358	2.8
	18-49	0	0.0	4493	35.6
	50-64	1	100.0	6373	50.5
	65+	0	0.0	423	3.3
<b>Recipient Gender</b>	Female	0	0.0	2761	21.9
	Male	1	100.0	9866	78.1
<b>Recipient Race</b>	White	1	100.0	10504	83.2
	Black	0	0.0	1206	9.6
	Hispanic	0	0.0	570	4.5
	Asian	0	0.0	125	1.0
	Other	0	0.0	216	1.7
	Not Reported	0	0.0	6	0.0



		----- Program -----		--- National ---	
		Number	%	Number	%
<b>Previous Heart Transplant</b>	No	0	0.0	12231	96.9
	Yes	1	100.0	344	2.7
	Not Reported	0	0.0	52	0.4
<b>On Ventilator at Transplant</b>	No	1	100.0	11892	94.2
	Yes	0	0.0	663	5.3
	Not Reported	0	0.0	72	0.6
<b>On VAD at Transplant</b>	No	1	100.0	12187	96.5
	Yes	0	0.0	366	2.9
	Not Reported	0	0.0	74	0.6
<b>On IABP at Transplant</b>	No	1	100.0	11754	93.1
	Yes	0	0.0	801	6.3
	Not Reported	0	0.0	72	0.6
<b>Diagnosis at Transplant</b>	Coronary Artery Disease	0	0.0	5222	41.4
	Cardiomyopathy	0	0.0	5779	45.8
	Eisenmenger's Syndrome/Congenital	0	0.0	933	7.4
	Valvular Heart Disease	0	0.0	476	3.8
	Other Diagnosis	1	100.0	183	1.4
	Not Reported	0	0.0	34	0.3
<b>Medical Condition at Transplant</b>	Not Hospitalized	1	100.0	5606	44.4
	Hospitalized	0	0.0	986	7.8
	In ICU	0	0.0	6019	47.7
	Not Reported	0	0.0	16	0.1
<b>Cold Ischemia Time</b>	Up to 2 hrs	1	100.0	3458	27.4
	> 2 - 2.5 hrs	0	0.0	2271	18.0
	> 2.5 - 3 hrs	0	0.0	2408	19.1
	> 3 - 3.5 hrs	0	0.0	1949	15.4
	> 3.5 hrs	0	0.0	2453	19.4
	Not Reported	0	0.0	88	0.7
<b>Year of Transplant</b>	1988	1	100.0	1649	13.1
	1989	0	0.0	1677	13.3
	1990	0	0.0	2071	16.4
	1991	0	0.0	2098	16.6
	1992	0	0.0	2145	17.0
	1993	0	0.0	2266	17.9
	1994	0	0.0	721	5.7

Source: UNOS OPTN/Scientific Registry data.

## Heart Transplants: January 1, 1988 - April 30, 1994

Survival Report for St Joseph Hospital - Omaha NE  
Provider Number 280030 (NESJ)Graft Survival

	Era 1: 1/1/88-4/30/92			Era 2: 5/1/92-4/30/94			Overall: 1/1/88-4/30/94						
Time Point	No. of TX	Act. Rate (%)	Exp. Rate (%)	No. of TX	Act. Rate (%)	Exp. Rate (%)	No. of TX	No. <sup>1</sup> w/CFU	No. Failed	Act. Rate (%)	Exp. Rate (%)	Diff. (%)	p- <sup>2</sup> value
1 Month	5	100.0	93.2				5	5	0	100.0	93.2	6.8	0.74
1 Year	5	60.0	80.7				5	5	2	60.0	80.7	-20.7	0.25
Cond. <sup>3</sup> 3 Years	3	100.0	88.7				3	3	0	100.0	88.7	11.3	0.73
3 Years <sup>3</sup>		60.0	71.6										

Patient Survival

	Era 1: 1/1/88-4/30/92			Era 2: 5/1/92-4/30/94			Overall: 1/1/88-4/30/94						
Time Point	No. of Pts. <sup>4</sup>	Act. Rate (%)	Exp. Rate (%)	No. of Pts. <sup>4</sup>	Act. Rate (%)	Exp. Rate (%)	No. of Pts. <sup>4</sup>	No. <sup>1,5</sup> w/CFU	No. <sup>5</sup> Died	Act. Rate (%)	Exp. Rate (%)	Diff. (%)	p- <sup>2</sup> value
1 Month	5	100.0	93.2				5	5.0	0.0	100.0	93.2	6.8	0.74
1 Year	5	60.0	81.1				5	5.0	2.0	60.0	81.1	-21.1	0.24
Cond. <sup>3</sup> 3 Years	3	100.0	89.0				3	3.0	0.0	100.0	89.0	11.0	0.74
3 Years <sup>3</sup>		60.0	72.2										

- Notes: <sup>1</sup> No. with complete follow-up (CFU) is the total of the number of patients (grafts) whose status was known during the specified time interval.
- <sup>2</sup> A p-value followed by an \* indicates that the difference is statistically significant at the 0.05 level.
- <sup>3</sup> Conditional 3 year survival rates are the survival rates conditional on survival at 1 year. These are computed based on transplants between 1/1/88 and 4/30/92. Three year survival rates are computed by multiplying the 1 year and the conditional 3 year survival rates.
- <sup>4</sup> The numbers of patients in Era 1 and Era 2 do not necessarily add up to the number of patients in the overall period, due to repeat transplants in different eras for some patients.
- <sup>5</sup> No. w/CFU or No. Died may be fractional if patients received more than one transplant at the program.

Source: UNOS OPTN/Scientific Registry data.

**Heart Transplants: January 1, 1988 - April 30, 1994**  
**Donor and Recipient Characteristics: Program and National Frequencies**

**St Joseph Hospital - Omaha NE**  
**Provider Number 280030 (NESJ)**

		----- Program -----		--- National ---	
		Number	%	Number	%
<b>Total Transplants and Percentages</b>		<b>5</b>	<b>100.0</b>	<b>12627</b>	<b>100.0</b>
<b>Donor Age</b>	0-5	0	0.0	799	6.3
	6-10	0	0.0	274	2.2
	11-17	0	0.0	2029	16.1
	18-49	5	100.0	8923	70.7
	50-64	0	0.0	589	4.7
	65+	0	0.0	12	0.1
	Not Reported	0	0.0	1	0.0
<b>Donor Gender</b>	Female	1	20.0	3728	29.5
	Male	4	80.0	8899	70.5
<b>Donor Race</b>	White	4	80.0	10036	79.5
	Black	0	0.0	1263	10.0
	Hispanic	1	20.0	1143	9.1
	Asian	0	0.0	90	0.7
	Other	0	0.0	87	0.7
	Not Reported	0	0.0	8	0.1
<b>Recipient Age</b>	<1	0	0.0	549	4.3
	1-10	0	0.0	431	3.4
	11-17	0	0.0	358	2.8
	18-49	0	0.0	4493	35.6
	50-64	4	80.0	6373	50.5
	65+	1	20.0	423	3.3
<b>Recipient Gender</b>	Female	1	20.0	2761	21.9
	Male	4	80.0	9866	78.1
<b>Recipient Race</b>	White	4	80.0	10504	83.2
	Black	1	20.0	1206	9.6
	Hispanic	0	0.0	570	4.5
	Asian	0	0.0	125	1.0
	Other	0	0.0	216	1.7
	Not Reported	0	0.0	6	0.0

		----- Program -----		--- National ---	
		Number	%	Number	%
<b>Previous Heart Transplant</b>	No	5	100.0	12231	96.9
	Yes	0	0.0	344	2.7
	Not Reported	0	0.0	52	0.4
<b>On Ventilator at Transplant</b>	No	5	100.0	11892	94.2
	Yes	0	0.0	663	5.3
	Not Reported	0	0.0	72	0.6
<b>On VAD at Transplant</b>	No	5	100.0	12187	96.5
	Yes	0	0.0	366	2.9
	Not Reported	0	0.0	74	0.6
<b>On IABP at Transplant</b>	No	5	100.0	11754	93.1
	Yes	0	0.0	801	6.3
	Not Reported	0	0.0	72	0.6
<b>Diagnosis at Transplant</b>	Coronary Artery Disease	0	0.0	5222	41.4
	Cardiomyopathy	5	100.0	5779	45.8
	Eisenmenger's Syndrome/Congenital	0	0.0	933	7.4
	Valvular Heart Disease	0	0.0	476	3.8
	Other Diagnosis	0	0.0	183	1.4
	Not Reported	0	0.0	34	0.3
<b>Medical Condition at Transplant</b>	Not Hospitalized	2	40.0	5606	44.4
	Hospitalized	2	40.0	986	7.8
	In ICU	1	20.0	6019	47.7
	Not Reported	0	0.0	16	0.1
<b>Cold Ischemia Time</b>	Up to 2 hrs	2	40.0	3458	27.4
	> 2 - 2.5 hrs	1	20.0	2271	18.0
	> 2.5 - 3 hrs	2	40.0	2408	19.1
	> 3 - 3.5 hrs	0	0.0	1949	15.4
	> 3.5 hrs	0	0.0	2453	19.4
	Not Reported	0	0.0	88	0.7
<b>Year of Transplant</b>	1988	0	0.0	1649	13.1
	1989	0	0.0	1677	13.3
	1990	3	60.0	2071	16.4
	1991	1	20.0	2098	16.6
	1992	1	20.0	2145	17.0
	1993	0	0.0	2266	17.9
	1994	0	0.0	721	5.7

Source: UNOS OPTN/Scientific Registry data.

## Heart Transplants: January 1, 1988 - April 30, 1994

Survival Report for University of Nebraska Medical Center - Omaha NE  
Provider Number 280013 (NEUN)Graft Survival

	Era 1: 1/1/88-4/30/92			Era 2: 5/1/92-4/30/94			Overall: 1/1/88-4/30/94						
Time Point	No. of TX	Act. Rate (%)	Exp. Rate (%)	No. of TX	Act. Rate (%)	Exp. Rate (%)	No. of TX	No. <sup>1</sup> w/CFU	No. Failed	Act. Rate (%)	Exp. Rate (%)	Diff. (%)	p- <sup>2</sup> value
1 Month				1	100.0	94.5	1	1	0	100.0	94.5	5.5	1.00
1 Year				1	100.0	86.2	1	1	0	100.0	86.2	13.8	1.00
Cond. <sup>3</sup> 3 Years													
3 Years <sup>3</sup>													

Patient Survival

	Era 1: 1/1/88-4/30/92			Era 2: 5/1/92-4/30/94			Overall: 1/1/88-4/30/94						
Time Point	No. of Pts. <sup>4</sup>	Act. Rate (%)	Exp. Rate (%)	No. of Pts. <sup>4</sup>	Act. Rate (%)	Exp. Rate (%)	No. of Pts. <sup>4</sup>	No. <sup>1,5</sup> w/CFU	No. <sup>5</sup> Died	Act. Rate (%)	Exp. Rate (%)	Diff. (%)	p- <sup>2</sup> value
1 Month				1	100.0	94.9	1	1.0	0.0	100.0	94.9	5.1	1.00
1 Year				1	100.0	86.7	1	1.0	0.0	100.0	86.7	13.3	1.00
Cond. <sup>3</sup> 3 Years													
3 Years <sup>3</sup>													

Notes: <sup>1</sup> No. with complete follow-up (CFU) is the total of the number of patients (grafts) whose status was known during the specified time interval.

<sup>2</sup> A p-value followed by an \* indicates that the difference is statistically significant at the 0.05 level.

<sup>3</sup> Conditional 3 year survival rates are the survival rates conditional on survival at 1 year. These are computed based on transplants between 1/1/88 and 4/30/92. Three year survival rates are computed by multiplying the 1 year and the conditional 3 year survival rates.

<sup>4</sup> The numbers of patients in Era 1 and Era 2 do not necessarily add up to the number of patients in the overall period, due to repeat transplants in different eras for some patients.

<sup>5</sup> No. w/CFU or No. Died may be fractional if patients received more than one transplant at the program.

Source: UNOS OPTN/Scientific Registry data.

**Heart Transplants: January 1, 1988 - April 30, 1994**  
**Donor and Recipient Characteristics: Program and National Frequencies**

**University of Nebraska Medical Center - Omaha NE**  
**Provider Number 280013 (NEUN)**

		---- Program ----		--- National ---	
		Number	%	Number	%
<b>Total Transplants and Percentages</b>		<b>1</b>	<b>100.0</b>	<b>12627</b>	<b>100.0</b>
<b>Donor Age</b>	0-5	0	0.0	799	6.3
	6-10	0	0.0	274	2.2
	11-17	0	0.0	2029	16.1
	18-49	1	100.0	8923	70.7
	50-64	0	0.0	589	4.7
	65+	0	0.0	12	0.1
	Not Reported	0	0.0	1	0.0
<b>Donor Gender</b>	Female	0	0.0	3728	29.5
	Male	1	100.0	8899	70.5
<b>Donor Race</b>	White	1	100.0	10036	79.5
	Black	0	0.0	1263	10.0
	Hispanic	0	0.0	1143	9.1
	Asian	0	0.0	90	0.7
	Other	0	0.0	87	0.7
	Not Reported	0	0.0	8	0.1
<b>Recipient Age</b>	<1	0	0.0	549	4.3
	1-10	0	0.0	431	3.4
	11-17	0	0.0	358	2.8
	18-49	1	100.0	4493	35.6
	50-64	0	0.0	6373	50.5
	65+	0	0.0	423	3.3
<b>Recipient Gender</b>	Female	0	0.0	2761	21.9
	Male	1	100.0	9866	78.1
<b>Recipient Race</b>	White	1	100.0	10504	83.2
	Black	0	0.0	1206	9.6
	Hispanic	0	0.0	570	4.5
	Asian	0	0.0	125	1.0
	Other	0	0.0	216	1.7
	Not Reported	0	0.0	6	0.0

		----- Program -----		--- National ---	
		Number	%	Number	%
<b>Previous Heart Transplant</b>	No	1	100.0	12231	96.9
	Yes	0	0.0	344	2.7
	Not Reported	0	0.0	52	0.4
<b>On Ventilator at Transplant</b>	No	1	100.0	11892	94.2
	Yes	0	0.0	663	5.3
	Not Reported	0	0.0	72	0.6
<b>On VAD at Transplant</b>	No	1	100.0	12187	96.5
	Yes	0	0.0	366	2.9
	Not Reported	0	0.0	74	0.6
<b>On IABP at Transplant</b>	No	1	100.0	11754	93.1
	Yes	0	0.0	801	6.3
	Not Reported	0	0.0	72	0.6
<b>Diagnosis at Transplant</b>	Coronary Artery Disease	0	0.0	5222	41.4
	Cardiomyopathy	1	100.0	5779	45.8
	Eisenmenger's Syndrome/Congenital	0	0.0	933	7.4
	Valvular Heart Disease	0	0.0	476	3.8
	Other Diagnosis	0	0.0	183	1.4
	Not Reported	0	0.0	34	0.3
<b>Medical Condition at Transplant</b>	Not Hospitalized	1	100.0	5606	44.4
	Hospitalized	0	0.0	986	7.8
	In ICU	0	0.0	6019	47.7
	Not Reported	0	0.0	16	0.1
<b>Cold Ischemia Time</b>	Up to 2 hrs	0	0.0	3458	27.4
	> 2 - 2.5 hrs	0	0.0	2271	18.0
	> 2.5 - 3 hrs	1	100.0	2408	19.1
	> 3 - 3.5 hrs	0	0.0	1949	15.4
	> 3.5 hrs	0	0.0	2453	19.4
	Not Reported	0	0.0	88	0.7
<b>Year of Transplant</b>	1988	0	0.0	1649	13.1
	1989	0	0.0	1677	13.3
	1990	0	0.0	2071	16.4
	1991	0	0.0	2098	16.6
	1992	0	0.0	2145	17.0
	1993	0	0.0	2266	17.9
	1994	1	100.0	721	5.7

Source: UNOS OPTN/Scientific Registry data.



## Heart Transplants: January 1, 1988 - April 30, 1994

Survival Report for Newark Beth Israel Medical Center - Newark NJ  
Provider Number 310002 (NJBI)Graft Survival

	Era 1: 1/1/88-4/30/92			Era 2: 5/1/92-4/30/94			Overall: 1/1/88-4/30/94						
Time Point	No. of TX	Act. Rate (%)	Exp. Rate (%)	No. of TX	Act. Rate (%)	Exp. Rate (%)	No. of TX	No. <sup>1</sup> w/CFU	No. Failed	Act. Rate (%)	Exp. Rate (%)	Diff. (%)	p- <sup>2</sup> value
1 Month	36	80.6	93.2	45	75.6	93.3	81	81	18	77.8	93.2	-15.4	<0.01*
1 Year	36	75.0	83.0	45	66.7	82.9	81	81	24	70.4	82.9	-12.6	<0.01*
Cond. <sup>3</sup> 3 Years	26	80.5	89.0				26	25	5	80.5	89.0	-8.4	0.17
3 Years <sup>3</sup>		60.4	73.8										

Patient Survival

	Era 1: 1/1/88-4/30/92			Era 2: 5/1/92-4/30/94			Overall: 1/1/88-4/30/94						
Time Point	No. of Pts. <sup>4</sup>	Act. Rate (%)	Exp. Rate (%)	No. of Pts. <sup>4</sup>	Act. Rate (%)	Exp. Rate (%)	No. of Pts. <sup>4</sup>	No. <sup>1,5</sup> w/CFU	No. <sup>5</sup> Died	Act. Rate (%)	Exp. Rate (%)	Diff. (%)	p- <sup>2</sup> value
1 Month	35	82.9	93.9	45	75.6	93.5	80	80.0	17.0	78.8	93.7	-14.9	<0.01*
1 Year	35	77.1	84.3	45	66.7	83.4	80	80.0	23.0	71.3	83.8	-12.5	<0.01*
Cond. <sup>3</sup> 3 Years	26	80.5	89.7				26	25.0	5.0	80.5	89.7	-9.1	0.13
3 Years <sup>3</sup>		62.1	75.6										

Notes: <sup>1</sup> No. with complete follow-up (CFU) is the total of the number of patients (grafts) whose status was known during the specified time interval.

<sup>2</sup> A p-value followed by an \* indicates that the difference is statistically significant at the 0.05 level.

<sup>3</sup> Conditional 3 year survival rates are the survival rates conditional on survival at 1 year. These are computed based on transplants between 1/1/88 and 4/30/92. Three year survival rates are computed by multiplying the 1 year and the conditional 3 year survival rates.

<sup>4</sup> The numbers of patients in Era 1 and Era 2 do not necessarily add up to the number of patients in the overall period, due to repeat transplants in different eras for some patients.

<sup>5</sup> No. w/CFU or No. Died may be fractional if patients received more than one transplant at the program.

Source: UNOS OPTN/Scientific Registry data.

**Heart Transplants: January 1, 1988 - April 30, 1994**  
**Donor and Recipient Characteristics: Program and National Frequencies**

**Newark Beth Israel Medical Center - Newark NJ**  
**Provider Number 310002 (NJBI)**

		----- Program -----		--- National ---	
		Number	%	Number	%
<b>Total Transplants and Percentages</b>		<b>81</b>	<b>100.0</b>	<b>12627</b>	<b>100.0</b>
<b>Donor Age</b>	0-5	0	0.0	799	6.3
	6-10	1	1.2	274	2.2
	11-17	18	22.2	2029	16.1
	18-49	58	71.6	8923	70.7
	50-64	4	4.9	589	4.7
	65+	0	0.0	12	0.1
	Not Reported	0	0.0	1	0.0
<b>Donor Gender</b>	Female	19	23.5	3728	29.5
	Male	62	76.5	8899	70.5
<b>Donor Race</b>	White	53	65.4	10036	79.5
	Black	13	16.0	1263	10.0
	Hispanic	11	13.6	1143	9.1
	Asian	3	3.7	90	0.7
	Other	1	1.2	87	0.7
	Not Reported	0	0.0	8	0.1
<b>Recipient Age</b>	<1	0	0.0	549	4.3
	1-10	0	0.0	431	3.4
	11-17	1	1.2	358	2.8
	18-49	27	33.3	4493	35.6
	50-64	49	60.5	6373	50.5
	65+	4	4.9	423	3.3
<b>Recipient Gender</b>	Female	16	19.8	2761	21.9
	Male	65	80.2	9866	78.1
<b>Recipient Race</b>	White	59	72.8	10504	83.2
	Black	14	17.3	1206	9.6
	Hispanic	6	7.4	570	4.5
	Asian	0	0.0	125	1.0
	Other	2	2.5	216	1.7
	Not Reported	0	0.0	6	0.0

		----- Program -----		--- National ---	
		Number	%	Number	%
<b>Previous Heart Transplant</b>	No	80	98.8	12231	96.9
	Yes	1	1.2	344	2.7
	Not Reported	0	0.0	52	0.4
<b>On Ventilator at Transplant</b>	No	79	97.5	11892	94.2
	Yes	2	2.5	663	5.3
	Not Reported	0	0.0	72	0.6
<b>On VAD at Transplant</b>	No	80	98.8	12187	96.5
	Yes	1	1.2	366	2.9
	Not Reported	0	0.0	74	0.6
<b>On IABP at Transplant</b>	No	76	93.8	11754	93.1
	Yes	5	6.2	801	6.3
	Not Reported	0	0.0	72	0.6
<b>Diagnosis at Transplant</b>	Coronary Artery Disease	36	44.4	5222	41.4
	Cardiomyopathy	41	50.6	5779	45.8
	Eisenmenger's Syndrome/Congenital	0	0.0	933	7.4
	Valvular Heart Disease	2	2.5	476	3.8
	Other Diagnosis	2	2.5	183	1.4
	Not Reported	0	0.0	34	0.3
<b>Medical Condition at Transplant</b>	Not Hospitalized	43	53.1	5606	44.4
	Hospitalized	10	12.3	986	7.8
	In ICU	28	34.6	6019	47.7
	Not Reported	0	0.0	16	0.1
<b>Cold Ischemia Time</b>	Up to 2 hrs	37	45.7	3458	27.4
	> 2 - 2.5 hrs	26	32.1	2271	18.0
	> 2.5 - 3 hrs	16	19.8	2408	19.1
	> 3 - 3.5 hrs	0	0.0	1949	15.4
	> 3.5 hrs	1	1.2	2453	19.4
	Not Reported	1	1.2	88	0.7
<b>Year of Transplant</b>	1988	0	0.0	1649	13.1
	1989	0	0.0	1677	13.3
	1990	12	14.8	2071	16.4
	1991	16	19.8	2098	16.6
	1992	26	32.1	2145	17.0
	1993	21	25.9	2266	17.9
	1994	6	7.4	721	5.7

Source: UNOS OPTN/Scientific Registry data.

**Response From: Newark Beth Israel Medical Center  
201 Lyons Avenue, Newark, NJ 07112  
Provider Number 310002 (NJBI)**

April 28, 1997

Newark Beth Israel Medical Center is a 601 bed teaching and tertiary referral center affiliated with the Mount Sinai School of Medicine. The Medical Center, one of nine acute care hospitals that make up the newly formed Saint Barnabas Health Care System, is the site of New Jersey's only heart transplant program.

The data presented for the period ending April 30, 1994 do not reflect our program's aggregate experience of over 138 transplants (1990-1997), our recent results, nor our program's capabilities. In our view, these outcomes were largely a consequence of risk factors excluded from the analysis, such as language barriers, low patient educational attainment, inadequate insurance, fragile patient domestic support systems, as well as International Society of Heart and Lung Transplantation recognized risk factors such as elevated pulmonary vascular resistance, amiodarone, and multiple previous cardiac surgeries.

In response to these outcomes, an extensive internal review was conducted in 1994, generating more than 20 modifications to our program's protocols. In that year as well, the medical and surgical directors of a very successful transplant center in the Midwest were asked to conduct an on-site evaluation of opportunities to improve outcomes in the Newark Beth Israel Medical Center program. Their recommendations, which have been incorporated into our formal guidelines, focused primarily on enhancing our candidate selection criteria.

The results of this performance improvement initiative which started in mid-1994 have been dramatic. Of 50 patients transplanted since the consultants' visit, only two expired in the early peri-operative period. Thus, for this recent patient cohort, Kaplan-Meier 30-day, 1-year, and 31-month survival has been 96, 87, and 80 percent respectively. In 1996, average length of post-operative stay has been reduced to 12 days.

Our recent results are superior to the national average and the Medicare standard. We are pleased that New Jersey residents now have access to one of the highest quality programs in the nation, staffed by an experienced group of dedicated professionals.

Mark Jay Zucker, M.D., J.D.  
Director, Cardiothoracic Transplantation



## Heart Transplants: January 1, 1988 - April 30, 1994

Survival Report for Presbyterian Hospital - Albuquerque NM  
Provider Number 320021 (NMPH)Graft Survival

	Era 1: 1/1/88-4/30/92			Era 2: 5/1/92-4/30/94			Overall: 1/1/88-4/30/94						
Time Point	No. of TX	Act. Rate (%)	Exp. Rate (%)	No. of TX	Act. Rate (%)	Exp. Rate (%)	No. of TX	No. <sup>1</sup> w/CFU	No. Failed	Act. Rate (%)	Exp. Rate (%)	Diff. (%)	p- <sup>2</sup> value
1 Month	59	91.5	92.5	22	90.9	93.7	81	81	7	91.4	92.8	-1.4	0.61
1 Year	59	81.4	82.1	22	77.3	83.8	81	81	16	80.2	82.6	-2.3	0.57
Cond. <sup>3</sup> 3 Years	48	93.8	87.8				48	48	3	93.8	87.8	6.0	0.20
3 Years <sup>3</sup>		76.3	72.0										

Patient Survival

	Era 1: 1/1/88-4/30/92			Era 2: 5/1/92-4/30/94			Overall: 1/1/88-4/30/94						
Time Point	No. of Pts. <sup>4</sup>	Act. Rate (%)	Exp. Rate (%)	No. of Pts. <sup>4</sup>	Act. Rate (%)	Exp. Rate (%)	No. of Pts. <sup>4</sup>	No. <sup>1,5</sup> w/CFU	No. <sup>5</sup> Died	Act. Rate (%)	Exp. Rate (%)	Diff. (%)	p- <sup>2</sup> value
1 Month	59	91.5	92.9	22	93.0	94.2	80	80.0	6.5	91.9	93.2	-1.4	0.62
1 Year	59	81.2	83.0	22	79.1	85.2	80	80.0	15.5	80.6	83.6	-3.0	0.46
Cond. <sup>3</sup> 3 Years	48	93.8	88.3				48	48.0	3.0	93.8	88.3	5.4	0.23
3 Years <sup>3</sup>		76.1	73.3										

Notes: <sup>1</sup> No. with complete follow-up (CFU) is the total of the number of patients (grafts) whose status was known during the specified time interval.

<sup>2</sup> A p-value followed by an \* indicates that the difference is statistically significant at the 0.05 level.

<sup>3</sup> Conditional 3 year survival rates are the survival rates conditional on survival at 1 year. These are computed based on transplants between 1/1/88 and 4/30/92. Three year survival rates are computed by multiplying the 1 year and the conditional 3 year survival rates.

<sup>4</sup> The numbers of patients in Era 1 and Era 2 do not necessarily add up to the number of patients in the overall period, due to repeat transplants in different eras for some patients.

<sup>5</sup> No. w/CFU or No. Died may be fractional if patients received more than one transplant at the program.

Source: UNOS OPTN/Scientific Registry data.

**Heart Transplants: January 1, 1988 - April 30, 1994**  
**Donor and Recipient Characteristics: Program and National Frequencies**

**Presbyterian Hospital - Albuquerque NM**  
**Provider Number 320021 (NMPH)**

		----- Program -----		--- National ---	
		Number	%	Number	%
<b>Total Transplants and Percentages</b>		<b>81</b>	<b>100.0</b>	<b>12627</b>	<b>100.0</b>
<b>Donor Age</b>	0-5	0	0.0	799	6.3
	6-10	2	2.5	274	2.2
	11-17	8	9.9	2029	16.1
	18-49	69	85.2	8923	70.7
	50-64	2	2.5	589	4.7
	65+	0	0.0	12	0.1
	Not Reported	0	0.0	1	0.0
<b>Donor Gender</b>	Female	18	22.2	3728	29.5
	Male	63	77.8	8899	70.5
<b>Donor Race</b>	White	51	63.0	10036	79.5
	Black	0	0.0	1263	10.0
	Hispanic	30	37.0	1143	9.1
	Asian	0	0.0	90	0.7
	Other	0	0.0	87	0.7
	Not Reported	0	0.0	8	0.1
<b>Recipient Age</b>	<1	0	0.0	549	4.3
	1-10	2	2.5	431	3.4
	11-17	3	3.7	358	2.8
	18-49	28	34.6	4493	35.6
	50-64	47	58.0	6373	50.5
	65+	1	1.2	423	3.3
<b>Recipient Gender</b>	Female	20	24.7	2761	21.9
	Male	61	75.3	9866	78.1
<b>Recipient Race</b>	White	56	69.1	10504	83.2
	Black	6	7.4	1206	9.6
	Hispanic	16	19.8	570	4.5
	Asian	0	0.0	125	1.0
	Other	3	3.7	216	1.7
	Not Reported	0	0.0	6	0.0

		----- Program -----		--- National ---	
		Number	%	Number	%
Previous Heart Transplant	No	76	93.8	12231	96.9
	Yes	5	6.2	344	2.7
	Not Reported	0	0.0	52	0.4
On Ventilator at Transplant	No	80	98.8	11892	94.2
	Yes	1	1.2	663	5.3
	Not Reported	0	0.0	72	0.6
On VAD at Transplant	No	80	98.8	12187	96.5
	Yes	1	1.2	366	2.9
	Not Reported	0	0.0	74	0.6
On IABP at Transplant	No	80	98.8	11754	93.1
	Yes	1	1.2	801	6.3
	Not Reported	0	0.0	72	0.6
Diagnosis at Transplant	Coronary Artery Disease	42	51.9	5222	41.4
	Cardiomyopathy	33	40.7	5779	45.8
	Eisenmenger's Syndrome/Congenital	2	2.5	933	7.4
	Valvular Heart Disease	4	4.9	476	3.8
	Other Diagnosis	0	0.0	183	1.4
	Not Reported	0	0.0	34	0.3
Medical Condition at Transplant	Not Hospitalized	54	66.7	5606	44.4
	Hospitalized	6	7.4	986	7.8
	In ICU	21	25.9	6019	47.7
	Not Reported	0	0.0	16	0.1
Cold Ischemia Time	Up to 2 hrs	42	51.9	3458	27.4
	> 2 - 2.5 hrs	16	19.8	2271	18.0
	> 2.5 - 3 hrs	9	11.1	2408	19.1
	> 3 - 3.5 hrs	8	9.9	1949	15.4
	> 3.5 hrs	6	7.4	2453	19.4
	Not Reported	0	0.0	88	0.7
Year of Transplant	1988	16	19.8	1649	13.1
	1989	6	7.4	1677	13.3
	1990	20	24.7	2071	16.4
	1991	15	18.5	2098	16.6
	1992	8	9.9	2145	17.0
	1993	13	16.0	2266	17.9
	1994	3	3.7	721	5.7

Source: UNOS OPTN/Scientific Registry data.



## Heart Transplants: January 1, 1988 - April 30, 1994

Survival Report for Children's Hospital - Buffalo NY  
Provider Number 333300 (NYBC)Graft Survival

	Era 1: 1/1/88-4/30/92			Era 2: 5/1/92-4/30/94			Overall: 1/1/88-4/30/94						
Time Point	No. of TX	Act. Rate (%)	Exp. Rate (%)	No. of TX	Act. Rate (%)	Exp. Rate (%)	No. of TX	No. <sup>1</sup> w/CFU	No. Failed	Act. Rate (%)	Exp. Rate (%)	Diff. (%)	p- <sup>2</sup> value
1 Month	1	100.0	86.4				1	1	0	100.0	86.4	13.6	1.00
1 Year	1	100.0	66.2				1	1	0	100.0	66.2	33.8	1.00
Cond. <sup>3</sup> 3 Years	1	100.0	85.8				1	1	0	100.0	85.8	14.2	1.00
3 Years <sup>3</sup>		100.0	56.8										

Patient Survival

	Era 1: 1/1/88-4/30/92			Era 2: 5/1/92-4/30/94			Overall: 1/1/88-4/30/94						
Time Point	No. of Pts. <sup>4</sup>	Act. Rate (%)	Exp. Rate (%)	No. of Pts. <sup>4</sup>	Act. Rate (%)	Exp. Rate (%)	No. of Pts. <sup>4</sup>	No. <sup>1,5</sup> w/CFU	No. <sup>5</sup> Died	Act. Rate (%)	Exp. Rate (%)	Diff. (%)	p- <sup>2</sup> value
1 Month	1	100.0	85.8				1	1.0	0.0	100.0	85.8	14.2	1.00
1 Year	1	100.0	66.9				1	1.0	0.0	100.0	66.9	33.1	1.00
Cond. <sup>3</sup> 3 Years	1	100.0	86.1				1	1.0	0.0	100.0	86.1	13.9	1.00
3 Years <sup>3</sup>		100.0	57.6										

Notes: <sup>1</sup> No. with complete follow-up (CFU) is the total of the number of patients (grafts) whose status was known during the specified time interval.

<sup>2</sup> A p-value followed by an \* indicates that the difference is statistically significant at the 0.05 level.

<sup>3</sup> Conditional 3 year survival rates are the survival rates conditional on survival at 1 year. These are computed based on transplants between 1/1/88 and 4/30/92. Three year survival rates are computed by multiplying the 1 year and the conditional 3 year survival rates.

<sup>4</sup> The numbers of patients in Era 1 and Era 2 do not necessarily add up to the number of patients in the overall period, due to repeat transplants in different eras for some patients.

<sup>5</sup> No. w/CFU or No. Died may be fractional if patients received more than one transplant at the program.

Source: UNOS OPTN/Scientific Registry data.

**Heart Transplants: January 1, 1988 - April 30, 1994**  
**Donor and Recipient Characteristics: Program and National Frequencies**

**Children's Hospital - Buffalo NY**  
**Provider Number 333300 (NYBC)**

		----- Program -----		--- National ---	
		Number	%	Number	%
<b>Total Transplants and Percentages</b>		<b>1</b>	<b>100.0</b>	<b>12627</b>	<b>100.0</b>
<b>Donor Age</b>	0-5	1	100.0	799	6.3
	6-10	0	0.0	274	2.2
	11-17	0	0.0	2029	16.1
	18-49	0	0.0	8923	70.7
	50-64	0	0.0	589	4.7
	65+	0	0.0	12	0.1
	Not Reported	0	0.0	1	0.0
<b>Donor Gender</b>	Female	0	0.0	3728	29.5
	Male	1	100.0	8899	70.5
<b>Donor Race</b>	White	1	100.0	10036	79.5
	Black	0	0.0	1263	10.0
	Hispanic	0	0.0	1143	9.1
	Asian	0	0.0	90	0.7
	Other	0	0.0	87	0.7
	Not Reported	0	0.0	8	0.1
<b>Recipient Age</b>	<1	0	0.0	549	4.3
	1-10	1	100.0	431	3.4
	11-17	0	0.0	358	2.8
	18-49	0	0.0	4493	35.6
	50-64	0	0.0	6373	50.5
	65+	0	0.0	423	3.3
<b>Recipient Gender</b>	Female	0	0.0	2761	21.9
	Male	1	100.0	9866	78.1
<b>Recipient Race</b>	White	0	0.0	10504	83.2
	Black	1	100.0	1206	9.6
	Hispanic	0	0.0	570	4.5
	Asian	0	0.0	125	1.0
	Other	0	0.0	216	1.7
	Not Reported	0	0.0	6	0.0

		----- Program -----		--- National ---	
		Number	%	Number	%
<b>Previous Heart Transplant</b>	No	1	100.0	12231	96.9
	Yes	0	0.0	344	2.7
	Not Reported	0	0.0	52	0.4
<b>On Ventilator at Transplant</b>	No	0	0.0	11892	94.2
	Yes	1	100.0	663	5.3
	Not Reported	0	0.0	72	0.6
<b>On VAD at Transplant</b>	No	1	100.0	12187	96.5
	Yes	0	0.0	366	2.9
	Not Reported	0	0.0	74	0.6
<b>On IABP at Transplant</b>	No	1	100.0	11754	93.1
	Yes	0	0.0	801	6.3
	Not Reported	0	0.0	72	0.6
<b>Diagnosis at Transplant</b>	Coronary Artery Disease	0	0.0	5222	41.4
	Cardiomyopathy	1	100.0	5779	45.8
	Eisenmenger's Syndrome/Congenital	0	0.0	933	7.4
	Valvular Heart Disease	0	0.0	476	3.8
	Other Diagnosis	0	0.0	183	1.4
	Not Reported	0	0.0	34	0.3
<b>Medical Condition at Transplant</b>	Not Hospitalized	1	100.0	5606	44.4
	Hospitalized	0	0.0	986	7.8
	In ICU	0	0.0	6019	47.7
	Not Reported	0	0.0	16	0.1
<b>Cold Ischemia Time</b>	Up to 2 hrs	0	0.0	3458	27.4
	> 2 - 2.5 hrs	1	100.0	2271	18.0
	> 2.5 - 3 hrs	0	0.0	2408	19.1
	> 3 - 3.5 hrs	0	0.0	1949	15.4
	> 3.5 hrs	0	0.0	2453	19.4
	Not Reported	0	0.0	88	0.7
<b>Year of Transplant</b>	1988	0	0.0	1649	13.1
	1989	0	0.0	1677	13.3
	1990	1	100.0	2071	16.4
	1991	0	0.0	2098	16.6
	1992	0	0.0	2145	17.0
	1993	0	0.0	2266	17.9
	1994	0	0.0	721	5.7

Source: UNOS OPTN/Scientific Registry data.

## Heart Transplants: January 1, 1988 - April 30, 1994

Survival Report for Buffalo General Hospital - Buffalo NY  
Provider Number 330005 (NYBU)Graft Survival

	Era 1: 1/1/88-4/30/92			Era 2: 5/1/92-4/30/94			Overall: 1/1/88-4/30/94						
Time Point	No. of TX	Act. Rate (%)	Exp. Rate (%)	No. of TX	Act. Rate (%)	Exp. Rate (%)	No. of TX	No. <sup>1</sup> w/CFU	No. Failed	Act. Rate (%)	Exp. Rate (%)	Diff. (%)	p- <sup>2</sup> value
1 Month	38	81.6	94.0	25	84.0	93.1	63	63	11	82.5	93.7	-11.1	<0.01*
1 Year	38	63.2	85.5	25	56.0	84.6	63	63	25	60.3	85.1	-24.8	<0.01*
Cond. <sup>3</sup> 3 Years	24	83.3	91.6				24	24	4	83.3	91.6	-8.3	0.14
3 Years <sup>3</sup>		52.6	78.3										

Patient Survival

	Era 1: 1/1/88-4/30/92			Era 2: 5/1/92-4/30/94			Overall: 1/1/88-4/30/94						
Time Point	No. of Pts. <sup>4</sup>	Act. Rate (%)	Exp. Rate (%)	No. of Pts. <sup>4</sup>	Act. Rate (%)	Exp. Rate (%)	No. of Pts. <sup>4</sup>	No. <sup>1,5</sup> w/CFU	No. <sup>5</sup> Died	Act. Rate (%)	Exp. Rate (%)	Diff. (%)	p- <sup>2</sup> value
1 Month	38	81.6	94.3	25	84.0	93.6	63	63.0	11.0	82.5	94.1	-11.5	<0.01*
1 Year	38	63.2	86.1	25	56.0	85.2	63	63.0	25.0	60.3	85.7	-25.4	<0.01*
Cond. <sup>3</sup> 3 Years	24	83.3	92.0				24	24.0	4.0	83.3	92.0	-8.7	0.12
3 Years <sup>3</sup>		52.6	79.2										

Notes: <sup>1</sup>. No. with complete follow-up (CFU) is the total of the number of patients (grafts) whose status was known during the specified time interval.

<sup>2</sup>. A p-value followed by an \* indicates that the difference is statistically significant at the 0.05 level.

<sup>3</sup>. Conditional 3 year survival rates are the survival rates conditional on survival at 1 year. These are computed based on transplants between 1/1/88 and 4/30/92. Three year survival rates are computed by multiplying the 1 year and the conditional 3 year survival rates.

<sup>4</sup>. The numbers of patients in Era 1 and Era 2 do not necessarily add up to the number of patients in the overall period, due to repeat transplants in different eras for some patients.

<sup>5</sup>. No. w/CFU or No. Died may be fractional if patients received more than one transplant at the program.

Source: UNOS OPTN/Scientific Registry data.

**Heart Transplants: January 1, 1988 - April 30, 1994**  
**Donor and Recipient Characteristics: Program and National Frequencies**

**Buffalo General Hospital - Buffalo NY**  
**Provider Number 330005 (NYBU)**

		----- Program -----		--- National ---	
		Number	%	Number	%
<b>Total Transplants and Percentages</b>		<b>63</b>	<b>100.0</b>	<b>12627</b>	<b>100.0</b>
<b>Donor Age</b>	0-5	0	0.0	799	6.3
	6-10	0	0.0	274	2.2
	11-17	9	14.3	2029	16.1
	18-49	54	85.7	8923	70.7
	50-64	0	0.0	589	4.7
	65+	0	0.0	12	0.1
	Not Reported	0	0.0	1	0.0
<b>Donor Gender</b>	Female	20	31.7	3728	29.5
	Male	43	68.3	8899	70.5
<b>Donor Race</b>	White	53	84.1	10036	79.5
	Black	7	11.1	1263	10.0
	Hispanic	3	4.8	1143	9.1
	Asian	0	0.0	90	0.7
	Other	0	0.0	87	0.7
	Not Reported	0	0.0	8	0.1
<b>Recipient Age</b>	<1	0	0.0	549	4.3
	1-10	0	0.0	431	3.4
	11-17	0	0.0	358	2.8
	18-49	33	52.4	4493	35.6
	50-64	30	47.6	6373	50.5
	65+	0	0.0	423	3.3
<b>Recipient Gender</b>	Female	8	12.7	2761	21.9
	Male	55	87.3	9866	78.1
<b>Recipient Race</b>	White	56	88.9	10504	83.2
	Black	4	6.3	1206	9.6
	Hispanic	1	1.6	570	4.5
	Asian	0	0.0	125	1.0
	Other	2	3.2	216	1.7
	Not Reported	0	0.0	6	0.0

		----- Program -----		--- National ---	
		Number	%	Number	%
<b>Previous Heart Transplant</b>	No	63	100.0	12231	96.9
	Yes	0	0.0	344	2.7
	Not Reported	0	0.0	52	0.4
<b>On Ventilator at Transplant</b>	No	62	98.4	11892	94.2
	Yes	1	1.6	663	5.3
	Not Reported	0	0.0	72	0.6
<b>On VAD at Transplant</b>	No	60	95.2	12187	96.5
	Yes	3	4.8	366	2.9
	Not Reported	0	0.0	74	0.6
<b>On IABP at Transplant</b>	No	63	100.0	11754	93.1
	Yes	0	0.0	801	6.3
	Not Reported	0	0.0	72	0.6
<b>Diagnosis at Transplant</b>	Coronary Artery Disease	26	41.3	5222	41.4
	Cardiomyopathy	29	46.0	5779	45.8
	Eisenmenger's Syndrome/Congenital	2	3.2	933	7.4
	Valvular Heart Disease	5	7.9	476	3.8
	Other Diagnosis	1	1.6	183	1.4
	Not Reported	0	0.0	34	0.3
<b>Medical Condition at Transplant</b>	Not Hospitalized	26	41.3	5606	44.4
	Hospitalized	7	11.1	986	7.8
	In ICU	30	47.6	6019	47.7
	Not Reported	0	0.0	16	0.1
<b>Cold Ischemia Time</b>	Up to 2 hrs	14	22.2	3458	27.4
	> 2 - 2.5 hrs	5	7.9	2271	18.0
	> 2.5 - 3 hrs	12	19.0	2408	19.1
	> 3 - 3.5 hrs	23	36.5	1949	15.4
	> 3.5 hrs	9	14.3	2453	19.4
	Not Reported	0	0.0	88	0.7
<b>Year of Transplant</b>	1988	6	9.5	1649	13.1
	1989	7	11.1	1677	13.3
	1990	10	15.9	2071	16.4
	1991	11	17.5	2098	16.6
	1992	12	19.0	2145	17.0
	1993	15	23.8	2266	17.9
	1994	2	3.2	721	5.7

Source: UNOS OPTN/Scientific Registry data.

## Heart Transplants: January 1, 1988 - April 30, 1994

Survival Report for Presbyterian Hospital in NY City - New York NY  
Provider Number 330012 (NYCP)Graft Survival

	Era 1: 1/1/88-4/30/92			Era 2: 5/1/92-4/30/94			Overall: 1/1/88-4/30/94						
Time Point	No. of TX	Act. Rate (%)	Exp. Rate (%)	No. of TX	Act. Rate (%)	Exp. Rate (%)	No. of TX	No. <sup>1</sup> w/CFU	No. Failed	Act. Rate (%)	Exp. Rate (%)	Diff. (%)	p- <sup>2</sup> value
1 Month	363	89.2	92.2	139	86.8	91.3	502	481	55	88.6	92.0	-3.4	<0.01*
1 Year	363	76.5	81.3	139	74.1	80.2	502	466	114	75.9	81.1	-5.1	<0.01*
Cond. <sup>3</sup> 3 Years	271	90.3	88.4				271	236	25	90.3	88.4	1.9	0.31
3 Years <sup>3</sup>		69.1	71.9										

Patient Survival

	Era 1: 1/1/88-4/30/92			Era 2: 5/1/92-4/30/94			Overall: 1/1/88-4/30/94						
Time Point	No. of Pts. <sup>4</sup>	Act. Rate (%)	Exp. Rate (%)	No. of Pts. <sup>4</sup>	Act. Rate (%)	Exp. Rate (%)	No. of Pts. <sup>4</sup>	No. <sup>1,5</sup> w/CFU	No. <sup>5</sup> Died	Act. Rate (%)	Exp. Rate (%)	Diff. (%)	p- <sup>2</sup> value
1 Month	356	89.8	92.7	139	86.7	91.8	493	472.0	52.0	89.0	92.5	-3.4	<0.01*
1 Year	356	77.3	82.3	139	74.7	81.1	493	457.0	108.5	76.7	82.0	-5.3	<0.01*
Cond. <sup>3</sup> 3 Years	269	91.4	89.1				269	233.5	22.0	91.4	89.1	2.3	0.21
3 Years <sup>3</sup>		70.6	73.3										

Notes: <sup>1</sup> No. with complete follow-up (CFU) is the total of the number of patients (grafts) whose status was known during the specified time interval.

<sup>2</sup> A p-value followed by an \* indicates that the difference is statistically significant at the 0.05 level.

<sup>3</sup> Conditional 3 year survival rates are the survival rates conditional on survival at 1 year. These are computed based on transplants between 1/1/88 and 4/30/92. Three year survival rates are computed by multiplying the 1 year and the conditional 3 year survival rates.

<sup>4</sup> The numbers of patients in Era 1 and Era 2 do not necessarily add up to the number of patients in the overall period, due to repeat transplants in different eras for some patients.

<sup>5</sup> No. w/CFU or No. Died may be fractional if patients received more than one transplant at the program.

Source: UNOS OPTN/Scientific Registry data.



**Heart Transplants: January 1, 1988 - April 30, 1994**  
**Donor and Recipient Characteristics: Program and National Frequencies**

**Presbyterian Hospital in NY City - New York NY**  
**Provider Number 330012 (NYCP)**

		----- Program -----		--- National ---	
		Number	%	Number	%
<b>Total Transplants and Percentages</b>		<b>502</b>	<b>100.0</b>	<b>12627</b>	<b>100.0</b>
<b>Donor Age</b>	0-5	25	5.0	799	6.3
	6-10	18	3.6	274	2.2
	11-17	72	14.3	2029	16.1
	18-49	373	74.3	8923	70.7
	50-64	14	2.8	589	4.7
	65+	0	0.0	12	0.1
	Not Reported	0	0.0	1	0.0
<b>Donor Gender</b>	Female	137	27.3	3728	29.5
	Male	365	72.7	8899	70.5
<b>Donor Race</b>	White	202	40.2	10036	79.5
	Black	67	13.3	1263	10.0
	Hispanic	229	45.6	1143	9.1
	Asian	2	0.4	90	0.7
	Other	2	0.4	87	0.7
	Not Reported	0	0.0	8	0.1
<b>Recipient Age</b>	<1	7	1.4	549	4.3
	1-10	29	5.8	431	3.4
	11-17	24	4.8	358	2.8
	18-49	197	39.2	4493	35.6
	50-64	229	45.6	6373	50.5
	65+	16	3.2	423	3.3
<b>Recipient Gender</b>	Female	121	24.1	2761	21.9
	Male	381	75.9	9866	78.1
<b>Recipient Race</b>	White	395	78.7	10504	83.2
	Black	54	10.8	1206	9.6
	Hispanic	36	7.2	570	4.5
	Asian	4	0.8	125	1.0
	Other	13	2.6	216	1.7
	Not Reported	0	0.0	6	0.0

		----- Program -----		--- National ---	
		Number	%	Number	%
<b>Previous Heart Transplant</b>	No	481	95.8	12231	96.9
	Yes	21	4.2	344	2.7
	Not Reported	0	0.0	52	0.4
<b>On Ventilator at Transplant</b>	No	489	97.4	11892	94.2
	Yes	12	2.4	663	5.3
	Not Reported	1	0.2	72	0.6
<b>On VAD at Transplant</b>	No	496	98.8	12187	96.5
	Yes	5	1.0	366	2.9
	Not Reported	1	0.2	74	0.6
<b>On IABP at Transplant</b>	No	495	98.6	11754	93.1
	Yes	6	1.2	801	6.3
	Not Reported	1	0.2	72	0.6
<b>Diagnosis at Transplant</b>	Coronary Artery Disease	195	38.8	5222	41.4
	Cardiomyopathy	223	44.4	5779	45.8
	Eisenmenger's Syndrome/Congenital	45	9.0	933	7.4
	Valvular Heart Disease	22	4.4	476	3.8
	Other Diagnosis	16	3.2	183	1.4
	Not Reported	1	0.2	34	0.3
<b>Medical Condition at Transplant</b>	Not Hospitalized	290	57.8	5606	44.4
	Hospitalized	35	7.0	986	7.8
	In ICU	177	35.3	6019	47.7
	Not Reported	0	0.0	16	0.1
<b>Cold Ischemia Time</b>	Up to 2 hrs	125	24.9	3458	27.4
	> 2 - 2.5 hrs	134	26.7	2271	18.0
	> 2.5 - 3 hrs	94	18.7	2408	19.1
	> 3 - 3.5 hrs	70	13.9	1949	15.4
	> 3.5 hrs	79	15.7	2453	19.4
	Not Reported	0	0.0	88	0.7
<b>Year of Transplant</b>	1988	60	12.0	1649	13.1
	1989	84	16.7	1677	13.3
	1990	108	21.5	2071	16.4
	1991	83	16.5	2098	16.6
	1992	84	16.7	2145	17.0
	1993	57	11.4	2266	17.9
	1994	26	5.2	721	5.7

Source: UNOS OPTN/Scientific Registry data.

## Heart Transplants: January 1, 1988 - April 30, 1994

Survival Report for Mount Sinai Medical Center - New York NY  
Provider Number 330024 (NYMS)Graft Survival

	Era 1: 1/1/88-4/30/92			Era 2: 5/1/92-4/30/94			Overall: 1/1/88-4/30/94						
Time Point	No. of TX	Act. Rate (%)	Exp. Rate (%)	No. of TX	Act. Rate (%)	Exp. Rate (%)	No. of TX	No. <sup>1</sup> w/CFU	No. Failed	Act. Rate (%)	Exp. Rate (%)	Diff. (%)	p- <sup>2</sup> value
1 Month	37	94.6	91.6	60	93.3	92.1	97	97	6	93.8	91.9	1.9	0.48
1 Year	37	86.5	80.7	60	86.7	82.3	97	97	13	86.6	81.7	4.9	0.20
Cond. <sup>3</sup> 3 Years	32	84.4	87.1				32	32	5	84.4	87.1	-2.7	0.64
3 Years <sup>3</sup>		73.0	70.3										

Patient Survival

	Era 1: 1/1/88-4/30/92			Era 2: 5/1/92-4/30/94			Overall: 1/1/88-4/30/94						
Time Point	No. of Pts. <sup>4</sup>	Act. Rate (%)	Exp. Rate (%)	No. of Pts. <sup>4</sup>	Act. Rate (%)	Exp. Rate (%)	No. of Pts. <sup>4</sup>	No. <sup>1,5</sup> w/CFU	No. <sup>5</sup> Died	Act. Rate (%)	Exp. Rate (%)	Diff. (%)	p- <sup>2</sup> value
1 Month	37	94.6	91.9	60	93.3	92.4	97	97.0	6.0	93.8	92.2	1.6	0.54
1 Year	37	86.5	81.4	60	86.7	82.9	97	97.0	13.0	86.6	82.3	4.3	0.26
Cond. <sup>3</sup> 3 Years	32	84.4	87.6				32	32.0	5.0	84.4	87.6	-3.2	0.57
3 Years <sup>3</sup>		73.0	71.3										

Notes: <sup>1</sup> No. with complete follow-up (CFU) is the total of the number of patients (grafts) whose status was known during the specified time interval.

<sup>2</sup> A p-value followed by an \* indicates that the difference is statistically significant at the 0.05 level.

<sup>3</sup> Conditional 3 year survival rates are the survival rates conditional on survival at 1 year. These are computed based on transplants between 1/1/88 and 4/30/92. Three year survival rates are computed by multiplying the 1 year and the conditional 3 year survival rates.

<sup>4</sup> The numbers of patients in Era 1 and Era 2 do not necessarily add up to the number of patients in the overall period, due to repeat transplants in different eras for some patients.

<sup>5</sup> No. w/CFU or No. Died may be fractional if patients received more than one transplant at the program.

Source: UNOS OPTN/Scientific Registry data.

**Heart Transplants: January 1, 1988 - April 30, 1994**  
**Donor and Recipient Characteristics: Program and National Frequencies**

**Mount Sinai Medical Center - New York NY**  
**Provider Number 330024 (NYMS)**

		---- Program ----		--- National ---	
		Number	%	Number	%
<b>Total Transplants and Percentages</b>		<b>97</b>	<b>100.0</b>	<b>12627</b>	<b>100.0</b>
<b>Donor Age</b>	0-5	9	9.3	799	6.3
	6-10	5	5.2	274	2.2
	11-17	11	11.3	2029	16.1
	18-49	69	71.1	8923	70.7
	50-64	3	3.1	589	4.7
	65+	0	0.0	12	0.1
	Not Reported	0	0.0	1	0.0
<b>Donor Gender</b>	Female	21	21.6	3728	29.5
	Male	76	78.4	8899	70.5
<b>Donor Race</b>	White	40	41.2	10036	79.5
	Black	16	16.5	1263	10.0
	Hispanic	35	36.1	1143	9.1
	Asian	5	5.2	90	0.7
	Other	1	1.0	87	0.7
	Not Reported	0	0.0	8	0.1
<b>Recipient Age</b>	<1	5	5.2	549	4.3
	1-10	9	9.3	431	3.4
	11-17	9	9.3	358	2.8
	18-49	35	36.1	4493	35.6
	50-64	38	39.2	6373	50.5
	65+	1	1.0	423	3.3
<b>Recipient Gender</b>	Female	36	37.1	2761	21.9
	Male	61	62.9	9866	78.1
<b>Recipient Race</b>	White	55	56.7	10504	83.2
	Black	19	19.6	1206	9.6
	Hispanic	22	22.7	570	4.5
	Asian	0	0.0	125	1.0
	Other	0	0.0	216	1.7
	Not Reported	1	1.0	6	0.0

		----- Program -----		--- National ---	
		Number	%	Number	%
<b>Previous Heart Transplant</b>	No	97	100.0	12231	96.9
	Yes	0	0.0	344	2.7
	Not Reported	0	0.0	52	0.4
<b>On Ventilator at Transplant</b>	No	94	96.9	11892	94.2
	Yes	3	3.1	663	5.3
	Not Reported	0	0.0	72	0.6
<b>On VAD at Transplant</b>	No	93	95.9	12187	96.5
	Yes	4	4.1	366	2.9
	Not Reported	0	0.0	74	0.6
<b>On IABP at Transplant</b>	No	94	96.9	11754	93.1
	Yes	3	3.1	801	6.3
	Not Reported	0	0.0	72	0.6
<b>Diagnosis at Transplant</b>	Coronary Artery Disease	28	28.9	5222	41.4
	Cardiomyopathy	46	47.4	5779	45.8
	Eisenmenger's Syndrome/Congenital	11	11.3	933	7.4
	Valvular Heart Disease	11	11.3	476	3.8
	Other Diagnosis	1	1.0	183	1.4
	Not Reported	0	0.0	34	0.3
<b>Medical Condition at Transplant</b>	Not Hospitalized	25	25.8	5606	44.4
	Hospitalized	0	0.0	986	7.8
	In ICU	72	74.2	6019	47.7
	Not Reported	0	0.0	16	0.1
<b>Cold Ischemia Time</b>	Up to 2 hrs	55	56.7	3458	27.4
	> 2 - 2.5 hrs	17	17.5	2271	18.0
	> 2.5 - 3 hrs	17	17.5	2408	19.1
	> 3 - 3.5 hrs	5	5.2	1949	15.4
	> 3.5 hrs	3	3.1	2453	19.4
	Not Reported	0	0.0	88	0.7
<b>Year of Transplant</b>	1988	0	0.0	1649	13.1
	1989	2	2.1	1677	13.3
	1990	8	8.2	2071	16.4
	1991	22	22.7	2098	16.6
	1992	25	25.8	2145	17.0
	1993	31	32.0	2266	17.9
	1994	9	9.3	721	5.7

Source: UNOS OPTN/Scientific Registry data.

## Heart Transplants: January 1, 1988 - April 30, 1994

Survival Report for VA Medical Center - Buffalo NY  
Provider Number 33012F (NYVA)Graft Survival

	Era 1: 1/1/88-4/30/92			Era 2: 5/1/92-4/30/94			Overall: 1/1/88-4/30/94						
Time Point	No. of TX	Act. Rate (%)	Exp. Rate (%)	No. of TX	Act. Rate (%)	Exp. Rate (%)	No. of TX	No. <sup>1</sup> w/CFU	No. Failed	Act. Rate (%)	Exp. Rate (%)	Diff. (%)	p- <sup>2</sup> value
1 Month	8	87.5	94.0				8	8	1	87.5	94.0	-6.5	0.43
1 Year	8	62.5	85.6				8	8	3	62.5	85.6	-23.1	0.06
Cond. <sup>3</sup> 3 Years	5	100.0	91.4				5	5	0	100.0	91.4	8.6	0.70
3 Years <sup>3</sup>		62.5	78.2										

Patient Survival

	Era 1: 1/1/88-4/30/92			Era 2: 5/1/92-4/30/94			Overall: 1/1/88-4/30/94						
Time Point	No. of Pts. <sup>4</sup>	Act. Rate (%)	Exp. Rate (%)	No. of Pts. <sup>4</sup>	Act. Rate (%)	Exp. Rate (%)	No. of Pts. <sup>4</sup>	No. <sup>1,5</sup> w/CFU	No. <sup>5</sup> Died	Act. Rate (%)	Exp. Rate (%)	Diff. (%)	p- <sup>2</sup> value
1 Month	8	87.5	94.4				8	8.0	1.0	87.5	94.4	-6.9	0.40
1 Year	8	62.5	86.2				8	8.0	3.0	62.5	86.2	-23.7	0.05
Cond. <sup>3</sup> 3 Years	5	100.0	91.8				5	5.0	0.0	100.0	91.8	8.2	0.71
3 Years <sup>3</sup>		62.5	79.1										

Notes: <sup>1</sup> No. with complete follow-up (CFU) is the total of the number of patients (grafts) whose status was known during the specified time interval.

<sup>2</sup> A p-value followed by an \* indicates that the difference is statistically significant at the 0.05 level.

<sup>3</sup> Conditional 3 year survival rates are the survival rates conditional on survival at 1 year. These are computed based on transplants between 1/1/88 and 4/30/92. Three year survival rates are computed by multiplying the 1 year and the conditional 3 year survival rates.

<sup>4</sup> The numbers of patients in Era 1 and Era 2 do not necessarily add up to the number of patients in the overall period, due to repeat transplants in different eras for some patients.

<sup>5</sup> No. w/CFU or No. Died may be fractional if patients received more than one transplant at the program.

Source: UNOS OPTN/Scientific Registry data.

**Heart Transplants: January 1, 1988 - April 30, 1994**  
**Donor and Recipient Characteristics: Program and National Frequencies**

**VA Medical Center - Buffalo NY**  
**Provider Number 33012F (NYVA)**

		----- Program -----		--- National ---	
		Number	%	Number	%
<b>Total Transplants and Percentages</b>		<b>8</b>	<b>100.0</b>	<b>12627</b>	<b>100.0</b>
<b>Donor Age</b>	0-5	0	0.0	799	6.3
	6-10	0	0.0	274	2.2
	11-17	0	0.0	2029	16.1
	18-49	8	100.0	8923	70.7
	50-64	0	0.0	589	4.7
	65+	0	0.0	12	0.1
	Not Reported	0	0.0	1	0.0
<b>Donor Gender</b>	Female	4	50.0	3728	29.5
	Male	4	50.0	8899	70.5
<b>Donor Race</b>	White	8	100.0	10036	79.5
	Black	0	0.0	1263	10.0
	Hispanic	0	0.0	1143	9.1
	Asian	0	0.0	90	0.7
	Other	0	0.0	87	0.7
	Not Reported	0	0.0	8	0.1
<b>Recipient Age</b>	<1	0	0.0	549	4.3
	1-10	0	0.0	431	3.4
	11-17	0	0.0	358	2.8
	18-49	3	37.5	4493	35.6
	50-64	5	62.5	6373	50.5
	65+	0	0.0	423	3.3
<b>Recipient Gender</b>	Female	0	0.0	2761	21.9
	Male	8	100.0	9866	78.1
<b>Recipient Race</b>	White	8	100.0	10504	83.2
	Black	0	0.0	1206	9.6
	Hispanic	0	0.0	570	4.5
	Asian	0	0.0	125	1.0
	Other	0	0.0	216	1.7
	Not Reported	0	0.0	6	0.0



		----- Program -----		--- National ---	
		Number	%	Number	%
<b>Previous Heart Transplant</b>	No	8	100.0	12231	96.9
	Yes	0	0.0	344	2.7
	Not Reported	0	0.0	52	0.4
<b>On Ventilator at Transplant</b>	No	8	100.0	11892	94.2
	Yes	0	0.0	663	5.3
	Not Reported	0	0.0	72	0.6
<b>On VAD at Transplant</b>	No	8	100.0	12187	96.5
	Yes	0	0.0	366	2.9
	Not Reported	0	0.0	74	0.6
<b>On IABP at Transplant</b>	No	8	100.0	11754	93.1
	Yes	0	0.0	801	6.3
	Not Reported	0	0.0	72	0.6
<b>Diagnosis at Transplant</b>	Coronary Artery Disease	4	50.0	5222	41.4
	Cardiomyopathy	3	37.5	5779	45.8
	Eisenmenger's Syndrome/Congenital	0	0.0	933	7.4
	Valvular Heart Disease	1	12.5	476	3.8
	Other Diagnosis	0	0.0	183	1.4
	Not Reported	0	0.0	34	0.3
<b>Medical Condition at Transplant</b>	Not Hospitalized	4	50.0	5606	44.4
	Hospitalized	2	25.0	986	7.8
	In ICU	2	25.0	6019	47.7
	Not Reported	0	0.0	16	0.1
<b>Cold Ischemia Time</b>	Up to 2 hrs	4	50.0	3458	27.4
	> 2 - 2.5 hrs	0	0.0	2271	18.0
	> 2.5 - 3 hrs	4	50.0	2408	19.1
	> 3 - 3.5 hrs	0	0.0	1949	15.4
	> 3.5 hrs	0	0.0	2453	19.4
	Not Reported	0	0.0	88	0.7
<b>Year of Transplant</b>	1988	3	37.5	1649	13.1
	1989	1	12.5	1677	13.3
	1990	2	25.0	2071	16.4
	1991	2	25.0	2098	16.6
	1992	0	0.0	2145	17.0
	1993	0	0.0	2266	17.9
	1994	0	0.0	721	5.7

Source: UNOS OPTN/Scientific Registry data.

## Heart Transplants: January 1, 1988 - April 30, 1994

Survival Report for Cleveland Clinic Foundation - Cleveland OH  
Provider Number 360180 (OHCC)Graft Survival

	Era 1: 1/1/88-4/30/92			Era 2: 5/1/92-4/30/94			Overall: 1/1/88-4/30/94						
Time Point	No. of TX	Act. Rate (%)	Exp. Rate (%)	No. of TX	Act. Rate (%)	Exp. Rate (%)	No. of TX	No. <sup>1</sup> w/CFU	No. Failed	Act. Rate (%)	Exp. Rate (%)	Diff. (%)	p- <sup>2</sup> value
1 Month	128	96.1	92.9	127	94.5	92.5	255	255	12	95.3	92.7	2.6	0.10
1 Year	128	87.5	83.6	127	88.2	83.1	255	255	31	87.8	83.4	4.5	0.05*
Cond. <sup>3</sup> 3 Years	111	90.0	89.9				111	110	11	90.0	89.9	0.1	0.97
3 Years <sup>3</sup>		78.8	75.2										

Patient Survival

	Era 1: 1/1/88-4/30/92			Era 2: 5/1/92-4/30/94			Overall: 1/1/88-4/30/94						
Time Point	No. of Pts. <sup>4</sup>	Act. Rate (%)	Exp. Rate (%)	No. of Pts. <sup>4</sup>	Act. Rate (%)	Exp. Rate (%)	No. of Pts. <sup>4</sup>	No. <sup>1,5</sup> w/CFU	No. <sup>5</sup> Died	Act. Rate (%)	Exp. Rate (%)	Diff. (%)	p- <sup>2</sup> value
1 Month	128	96.0	93.3	127	94.4	93.2	252	252.0	12.0	95.2	93.2	2.0	0.19
1 Year	128	87.4	84.4	127	88.0	84.1	252	252.0	31.0	87.7	84.2	3.5	0.12
Cond. <sup>3</sup> 3 Years	111	92.8	90.4				111	110.0	8.0	92.8	90.4	2.3	0.40
3 Years <sup>3</sup>		81.0	76.3										

Notes: <sup>1</sup> No. with complete follow-up (CFU) is the total of the number of patients (grafts) whose status was known during the specified time interval.

<sup>2</sup> A p-value followed by an \* indicates that the difference is statistically significant at the 0.05 level.

<sup>3</sup> Conditional 3 year survival rates are the survival rates conditional on survival at 1 year. These are computed based on transplants between 1/1/88 and 4/30/92. Three year survival rates are computed by multiplying the 1 year and the conditional 3 year survival rates.

<sup>4</sup> The numbers of patients in Era 1 and Era 2 do not necessarily add up to the number of patients in the overall period, due to repeat transplants in different eras for some patients.

<sup>5</sup> No. w/CFU or No. Died may be fractional if patients received more than one transplant at the program.

Source: UNOS OPTN/Scientific Registry data.

**Heart Transplants: January 1, 1988 - April 30, 1994**  
**Donor and Recipient Characteristics: Program and National Frequencies**

**Cleveland Clinic Foundation - Cleveland OH**  
**Provider Number 360180 (OHCC)**

		----- Program -----		--- National ---	
		Number	%	Number	%
<b>Total Transplants and Percentages</b>		<b>255</b>	<b>100.0</b>	<b>12627</b>	<b>100.0</b>
<b>Donor Age</b>	0-5	3	1.2	799	6.3
	6-10	6	2.4	274	2.2
	11-17	27	10.6	2029	16.1
	18-49	203	79.6	8923	70.7
	50-64	16	6.3	589	4.7
	65+	0	0.0	12	0.1
	Not Reported	0	0.0	1	0.0
<b>Donor Gender</b>	Female	88	34.5	3728	29.5
	Male	167	65.5	8899	70.5
<b>Donor Race</b>	White	230	90.2	10036	79.5
	Black	21	8.2	1263	10.0
	Hispanic	2	0.8	1143	9.1
	Asian	2	0.8	90	0.7
	Other	0	0.0	87	0.7
	Not Reported	0	0.0	8	0.1
<b>Recipient Age</b>	<1	2	0.8	549	4.3
	1-10	4	1.6	431	3.4
	11-17	5	2.0	358	2.8
	18-49	110	43.1	4493	35.6
	50-64	134	52.5	6373	50.5
	65+	0	0.0	423	3.3
<b>Recipient Gender</b>	Female	60	23.5	2761	21.9
	Male	195	76.5	9866	78.1
<b>Recipient Race</b>	White	205	80.4	10504	83.2
	Black	40	15.7	1206	9.6
	Hispanic	3	1.2	570	4.5
	Asian	1	0.4	125	1.0
	Other	6	2.4	216	1.7
	Not Reported	0	0.0	6	0.0

		----- Program -----		--- National ---	
		Number	%	Number	%
<b>Previous Heart Transplant</b>	No	250	98.0	12231	96.9
	Yes	5	2.0	344	2.7
	Not Reported	0	0.0	52	0.4
<b>On Ventilator at Transplant</b>	No	247	96.9	11892	94.2
	Yes	5	2.0	663	5.3
	Not Reported	3	1.2	72	0.6
<b>On VAD at Transplant</b>	No	233	91.4	12187	96.5
	Yes	19	7.5	366	2.9
	Not Reported	3	1.2	74	0.6
<b>On IABP at Transplant</b>	No	245	96.1	11754	93.1
	Yes	7	2.7	801	6.3
	Not Reported	3	1.2	72	0.6
<b>Diagnosis at Transplant</b>	Coronary Artery Disease	111	43.5	5222	41.4
	Cardiomyopathy	127	49.8	5779	45.8
	Eisenmenger's Syndrome/Congenital	7	2.7	933	7.4
	Valvular Heart Disease	8	3.1	476	3.8
	Other Diagnosis	2	0.8	183	1.4
	Not Reported	0	0.0	34	0.3
<b>Medical Condition at Transplant</b>	Not Hospitalized	100	39.2	5606	44.4
	Hospitalized	33	12.9	986	7.8
	In ICU	122	47.8	6019	47.7
	Not Reported	0	0.0	16	0.1
<b>Cold Ischemia Time</b>	Up to 2 hrs	93	36.5	3458	27.4
	> 2 - 2.5 hrs	69	27.1	2271	18.0
	> 2.5 - 3 hrs	63	24.7	2408	19.1
	> 3 - 3.5 hrs	21	8.2	1949	15.4
	> 3.5 hrs	9	3.5	2453	19.4
	Not Reported	0	0.0	88	0.7
<b>Year of Transplant</b>	1988	17	6.7	1649	13.1
	1989	19	7.5	1677	13.3
	1990	33	12.9	2071	16.4
	1991	41	16.1	2098	16.6
	1992	67	26.3	2145	17.0
	1993	60	23.5	2266	17.9
	1994	18	7.1	721	5.7

Source: UNOS OPTN/Scientific Registry data.

## Heart Transplants: January 1, 1988 - April 30, 1994

Survival Report for Children's Hospital Medical Center - Cincinnati OH  
Provider Number 363300 (OHCM)Graft Survival

	Era 1: 1/1/88-4/30/92			Era 2: 5/1/92-4/30/94			Overall: 1/1/88-4/30/94						
Time Point	No. of TX	Act. Rate (%)	Exp. Rate (%)	No. of TX	Act. Rate (%)	Exp. Rate (%)	No. of TX	No. <sup>1</sup> w/CFU	No. Failed	Act. Rate (%)	Exp. Rate (%)	Diff. (%)	p- <sup>2</sup> value
1 Month	7	100.0	85.9	4	100.0	85.2	11	11	0	100.0	85.7	14.3	0.16
1 Year	7	85.7	72.2	4	100.0	73.7	11	11	1	90.9	72.8	18.1	0.16
Cond. <sup>3</sup> 3 Years	6	66.7	89.7				6	6	2	66.7	89.7	-23.0	0.06
3 Years <sup>3</sup>		57.1	64.8										

Patient Survival

	Era 1: 1/1/88-4/30/92			Era 2: 5/1/92-4/30/94			Overall: 1/1/88-4/30/94						
Time Point	No. of Pts. <sup>4</sup>	Act. Rate (%)	Exp. Rate (%)	No. of Pts. <sup>4</sup>	Act. Rate (%)	Exp. Rate (%)	No. of Pts. <sup>4</sup>	No. <sup>1,5</sup> w/CFU	No. <sup>5</sup> Died	Act. Rate (%)	Exp. Rate (%)	Diff. (%)	p- <sup>2</sup> value
1 Month	7	100.0	86.3	4	100.0	85.9	11	11.0	0.0	100.0	86.2	13.8	0.17
1 Year	7	85.7	73.5	4	100.0	74.8	11	11.0	1.0	90.9	73.9	17.0	0.18
Cond. <sup>3</sup> 3 Years	6	66.7	90.1				6	6.0	2.0	66.7	90.1	-23.5	0.05
3 Years <sup>3</sup>		57.1	66.2										

- Notes: <sup>1</sup>. No. with complete follow-up (CFU) is the total of the number of patients (grafts) whose status was known during the specified time interval.
- <sup>2</sup>. A p-value followed by an \* indicates that the difference is statistically significant at the 0.05 level.
- <sup>3</sup>. Conditional 3 year survival rates are the survival rates conditional on survival at 1 year. These are computed based on transplants between 1/1/88 and 4/30/92. Three year survival rates are computed by multiplying the 1 year and the conditional 3 year survival rates.
- <sup>4</sup>. The numbers of patients in Era 1 and Era 2 do not necessarily add up to the number of patients in the overall period, due to repeat transplants in different eras for some patients.
- <sup>5</sup>. No. w/CFU or No. Died may be fractional if patients received more than one transplant at the program.

Source: UNOS OPTN/Scientific Registry data.

**Heart Transplants: January 1, 1988 - April 30, 1994**  
**Donor and Recipient Characteristics: Program and National Frequencies**

**Children's Hospital Medical Center - Cincinnati OH**  
**Provider Number 363300 (OHCM)**

		----- Program -----		--- National ---	
		Number	%	Number	%
<b>Total Transplants and Percentages</b>		<b>11</b>	<b>100.0</b>	<b>12627</b>	<b>100.0</b>
<b>Donor Age</b>	0-5	8	72.7	799	6.3
	6-10	1	9.1	274	2.2
	11-17	0	0.0	2029	16.1
	18-49	2	18.2	8923	70.7
	50-64	0	0.0	589	4.7
	65+	0	0.0	12	0.1
	Not Reported	0	0.0	1	0.0
<b>Donor Gender</b>	Female	5	45.5	3728	29.5
	Male	6	54.5	8899	70.5
<b>Donor Race</b>	White	5	45.5	10036	79.5
	Black	6	54.5	1263	10.0
	Hispanic	0	0.0	1143	9.1
	Asian	0	0.0	90	0.7
	Other	0	0.0	87	0.7
	Not Reported	0	0.0	8	0.1
<b>Recipient Age</b>	<1	3	27.3	549	4.3
	1-10	5	45.5	431	3.4
	11-17	3	27.3	358	2.8
	18-49	0	0.0	4493	35.6
	50-64	0	0.0	6373	50.5
	65+	0	0.0	423	3.3
<b>Recipient Gender</b>	Female	6	54.5	2761	21.9
	Male	5	45.5	9866	78.1
<b>Recipient Race</b>	White	10	90.9	10504	83.2
	Black	1	9.1	1206	9.6
	Hispanic	0	0.0	570	4.5
	Asian	0	0.0	125	1.0
	Other	0	0.0	216	1.7
	Not Reported	0	0.0	6	0.0

		----- Program -----		--- National ---	
		Number	%	Number	%
<b>Previous Heart Transplant</b>	No	11	100.0	12231	96.9
	Yes	0	0.0	344	2.7
	Not Reported	0	0.0	52	0.4
<b>On Ventilator at Transplant</b>	No	7	63.6	11892	94.2
	Yes	4	36.4	663	5.3
	Not Reported	0	0.0	72	0.6
<b>On VAD at Transplant</b>	No	11	100.0	12187	96.5
	Yes	0	0.0	366	2.9
	Not Reported	0	0.0	74	0.6
<b>On IABP at Transplant</b>	No	11	100.0	11754	93.1
	Yes	0	0.0	801	6.3
	Not Reported	0	0.0	72	0.6
<b>Diagnosis at Transplant</b>	Coronary Artery Disease	0	0.0	5222	41.4
	Cardiomyopathy	5	45.5	5779	45.8
	Eisenmenger's Syndrome/Congenital	5	45.5	933	7.4
	Valvular Heart Disease	0	0.0	476	3.8
	Other Diagnosis	1	9.1	183	1.4
	Not Reported	0	0.0	34	0.3
<b>Medical Condition at Transplant</b>	Not Hospitalized	8	72.7	5606	44.4
	Hospitalized	0	0.0	986	7.8
	In ICU	3	27.3	6019	47.7
	Not Reported	0	0.0	16	0.1
<b>Cold Ischemia Time</b>	Up to 2 hrs	0	0.0	3458	27.4
	> 2 - 2.5 hrs	0	0.0	2271	18.0
	> 2.5 - 3 hrs	3	27.3	2408	19.1
	> 3 - 3.5 hrs	3	27.3	1949	15.4
	> 3.5 hrs	5	45.5	2453	19.4
	Not Reported	0	0.0	88	0.7
<b>Year of Transplant</b>	1988	0	0.0	1649	13.1
	1989	0	0.0	1677	13.3
	1990	2	18.2	2071	16.4
	1991	5	45.5	2098	16.6
	1992	1	9.1	2145	17.0
	1993	3	27.3	2266	17.9
	1994	0	0.0	721	5.7

Source: UNOS OPTN/Scientific Registry data.



## Heart Transplants: January 1, 1988 - April 30, 1994

Survival Report for Medical College Hospitals - Toledo OH  
Provider Number 360048 (OHCO)Graft Survival

	Era 1: 1/1/88-4/30/92			Era 2: 5/1/92-4/30/94			Overall: 1/1/88-4/30/94						
Time Point	No. of TX	Act. Rate (%)	Exp. Rate (%)	No. of TX	Act. Rate (%)	Exp. Rate (%)	No. of TX	No. <sup>1</sup> w/CFU	No. Failed	Act. Rate (%)	Exp. Rate (%)	Diff. (%)	p- <sup>2</sup> value
1 Month	24	91.7	90.0	11	100.0	92.5	35	35	2	94.3	90.8	3.5	0.46
1 Year	24	83.3	80.8	11	100.0	84.3	35	35	4	88.6	81.9	6.7	0.29
Cond. <sup>3</sup> 3 Years	20	80.0	90.2				20	20	4	80.0	90.2	-10.2	0.12
3 Years <sup>3</sup>		66.7	72.9										

Patient Survival

	Era 1: 1/1/88-4/30/92			Era 2: 5/1/92-4/30/94			Overall: 1/1/88-4/30/94						
Time Point	No. of Pts. <sup>4</sup>	Act. Rate (%)	Exp. Rate (%)	No. of Pts. <sup>4</sup>	Act. Rate (%)	Exp. Rate (%)	No. of Pts. <sup>4</sup>	No. <sup>1,5</sup> w/CFU	No. <sup>5</sup> Died	Act. Rate (%)	Exp. Rate (%)	Diff. (%)	p- <sup>2</sup> value
1 Month	24	91.7	90.5	11	100.0	92.9	35	35.0	2.0	94.3	91.3	3.0	0.51
1 Year	24	83.3	81.7	11	100.0	85.0	35	35.0	4.0	88.6	82.7	5.9	0.35
Cond. <sup>3</sup> 3 Years	20	80.0	90.8				20	20.0	4.0	80.0	90.8	-10.8	0.09
3 Years <sup>3</sup>		66.7	74.2										

Notes: <sup>1</sup> No. with complete follow-up (CFU) is the total of the number of patients (grafts) whose status was known during the specified time interval.

<sup>2</sup> A p-value followed by an \* indicates that the difference is statistically significant at the 0.05 level.

<sup>3</sup> Conditional 3 year survival rates are the survival rates conditional on survival at 1 year. These are computed based on transplants between 1/1/88 and 4/30/92. Three year survival rates are computed by multiplying the 1 year and the conditional 3 year survival rates.

<sup>4</sup> The numbers of patients in Era 1 and Era 2 do not necessarily add up to the number of patients in the overall period, due to repeat transplants in different eras for some patients.

<sup>5</sup> No. w/CFU or No. Died may be fractional if patients received more than one transplant at the program.

Source: UNOS OPTN/Scientific Registry data.

**Heart Transplants: January 1, 1988 - April 30, 1994**  
**Donor and Recipient Characteristics: Program and National Frequencies**

**Medical College Hospitals - Toledo OH**  
**Provider Number 360048 (OHCO)**

		----- Program -----		--- National ---	
		Number	%	Number	%
<b>Total Transplants and Percentages</b>		<b>35</b>	<b>100.0</b>	<b>12627</b>	<b>100.0</b>
<b>Donor Age</b>	0-5	0	0.0	799	6.3
	6-10	2	5.7	274	2.2
	11-17	5	14.3	2029	16.1
	18-49	28	80.0	8923	70.7
	50-64	0	0.0	589	4.7
	65+	0	0.0	12	0.1
	Not Reported	0	0.0	1	0.0
<b>Donor Gender</b>	Female	15	42.9	3728	29.5
	Male	20	57.1	8899	70.5
<b>Donor Race</b>	White	31	88.6	10036	79.5
	Black	2	5.7	1263	10.0
	Hispanic	2	5.7	1143	9.1
	Asian	0	0.0	90	0.7
	Other	0	0.0	87	0.7
	Not Reported	0	0.0	8	0.1
<b>Recipient Age</b>	<1	0	0.0	549	4.3
	1-10	3	8.6	431	3.4
	11-17	2	5.7	358	2.8
	18-49	16	45.7	4493	35.6
	50-64	14	40.0	6373	50.5
	65+	0	0.0	423	3.3
<b>Recipient Gender</b>	Female	8	22.9	2761	21.9
	Male	27	77.1	9866	78.1
<b>Recipient Race</b>	White	32	91.4	10504	83.2
	Black	1	2.9	1206	9.6
	Hispanic	1	2.9	570	4.5
	Asian	1	2.9	125	1.0
	Other	0	0.0	216	1.7
	Not Reported	0	0.0	6	0.0

		----- Program -----		--- National ---	
		Number	%	Number	%
Previous Heart Transplant	No	35	100.0	12231	96.9
	Yes	0	0.0	344	2.7
	Not Reported	0	0.0	52	0.4
On Ventilator at Transplant	No	31	88.6	11892	94.2
	Yes	4	11.4	663	5.3
	Not Reported	0	0.0	72	0.6
On VAD at Transplant	No	35	100.0	12187	96.5
	Yes	0	0.0	366	2.9
	Not Reported	0	0.0	74	0.6
On IABP at Transplant	No	30	85.7	11754	93.1
	Yes	5	14.3	801	6.3
	Not Reported	0	0.0	72	0.6
Diagnosis at Transplant	Coronary Artery Disease	19	54.3	5222	41.4
	Cardiomyopathy	15	42.9	5779	45.8
	Eisenmenger's Syndrome/Congenital	1	2.9	933	7.4
	Valvular Heart Disease	0	0.0	476	3.8
	Other Diagnosis	0	0.0	183	1.4
	Not Reported	0	0.0	34	0.3
Medical Condition at Transplant	Not Hospitalized	13	37.1	5606	44.4
	Hospitalized	4	11.4	986	7.8
	In ICU	18	51.4	6019	47.7
	Not Reported	0	0.0	16	0.1
Cold Ischemia Time	Up to 2 hrs	7	20.0	3458	27.4
	> 2 - 2.5 hrs	5	14.3	2271	18.0
	> 2.5 - 3 hrs	8	22.9	2408	19.1
	> 3 - 3.5 hrs	7	20.0	1949	15.4
	> 3.5 hrs	8	22.9	2453	19.4
	Not Reported	0	0.0	88	0.7
Year of Transplant	1988	7	20.0	1649	13.1
	1989	10	28.6	1677	13.3
	1990	7	20.0	2071	16.4
	1991	0	0.0	2098	16.6
	1992	0	0.0	2145	17.0
	1993	8	22.9	2266	17.9
	1994	3	8.6	721	5.7

Source: UNOS OPTN/Scientific Registry data.

## Heart Transplants: January 1, 1988 - April 30, 1994

Survival Report for Ohio State University Hospitals - Columbus OH  
Provider Number 360085 (OHOU)Graft Survival

	Era 1: 1/1/88-4/30/92			Era 2: 5/1/92-4/30/94			Overall: 1/1/88-4/30/94						
Time Point	No. of TX	Act. Rate (%)	Exp. Rate (%)	No. of TX	Act. Rate (%)	Exp. Rate (%)	No. of TX	No. <sup>1</sup> w/CFU	No. Failed	Act. Rate (%)	Exp. Rate (%)	Diff. (%)	p- <sup>2</sup> value
1 Month	66	89.4	93.8	33	84.8	93.9	99	99	12	87.9	93.8	-5.9	0.01*
1 Year	66	83.3	85.2	33	78.8	85.7	99	99	18	81.8	85.4	-3.5	0.31
Cond. <sup>3</sup> 3 Years	55	94.5	91.0				55	54	3	94.5	91.0	3.5	0.36
3 Years <sup>3</sup>		78.8	77.5										

Patient Survival

	Era 1: 1/1/88-4/30/92			Era 2: 5/1/92-4/30/94			Overall: 1/1/88-4/30/94						
Time Point	No. of Pts. <sup>4</sup>	Act. Rate (%)	Exp. Rate (%)	No. of Pts. <sup>4</sup>	Act. Rate (%)	Exp. Rate (%)	No. of Pts. <sup>4</sup>	No. <sup>1,5</sup> w/CFU	No. <sup>5</sup> Died	Act. Rate (%)	Exp. Rate (%)	Diff. (%)	p- <sup>2</sup> value
1 Month	65	89.2	94.4	33	84.8	94.2	98	98.0	12.0	87.8	94.3	-6.6	<0.01*
1 Year	65	84.6	86.2	33	78.8	86.2	98	98.0	17.0	82.7	86.2	-3.6	0.30
Cond. <sup>3</sup> 3 Years	55	94.5	91.5				55	54.0	3.0	94.5	91.5	3.0	0.42
3 Years <sup>3</sup>		80.0	78.9										

Notes: <sup>1</sup> No. with complete follow-up (CFU) is the total of the number of patients (grafts) whose status was known during the specified time interval.

<sup>2</sup> A p-value followed by an \* indicates that the difference is statistically significant at the 0.05 level.

<sup>3</sup> Conditional 3 year survival rates are the survival rates conditional on survival at 1 year. These are computed based on transplants between 1/1/88 and 4/30/92. Three year survival rates are computed by multiplying the 1 year and the conditional 3 year survival rates.

<sup>4</sup> The numbers of patients in Era 1 and Era 2 do not necessarily add up to the number of patients in the overall period, due to repeat transplants in different eras for some patients.

<sup>5</sup> No. w/CFU or No. Died may be fractional if patients received more than one transplant at the program.

Source: UNOS OPTN/Scientific Registry data.

**Heart Transplants: January 1, 1988 - April 30, 1994**  
**Donor and Recipient Characteristics: Program and National Frequencies**

**Ohio State University Hospitals - Columbus OH**  
**Provider Number 360085 (OHOU)**

		----- Program -----		--- National ---	
		Number	%	Number	%
<b>Total Transplants and Percentages</b>		<b>99</b>	<b>100.0</b>	<b>12627</b>	<b>100.0</b>
<b>Donor Age</b>	0-5	0	0.0	799	6.3
	6-10	1	1.0	274	2.2
	11-17	17	17.2	2029	16.1
	18-49	80	80.8	8923	70.7
	50-64	1	1.0	589	4.7
	65+	0	0.0	12	0.1
	Not Reported	0	0.0	1	0.0
<b>Donor Gender</b>	Female	7	7.1	3728	29.5
	Male	92	92.9	8899	70.5
<b>Donor Race</b>	White	84	84.8	10036	79.5
	Black	14	14.1	1263	10.0
	Hispanic	0	0.0	1143	9.1
	Asian	0	0.0	90	0.7
	Other	1	1.0	87	0.7
	Not Reported	0	0.0	8	0.1
<b>Recipient Age</b>	<1	0	0.0	549	4.3
	1-10	0	0.0	431	3.4
	11-17	3	3.0	358	2.8
	18-49	45	45.5	4493	35.6
	50-64	50	50.5	6373	50.5
	65+	1	1.0	423	3.3
<b>Recipient Gender</b>	Female	20	20.2	2761	21.9
	Male	79	79.8	9866	78.1
<b>Recipient Race</b>	White	92	92.9	10504	83.2
	Black	7	7.1	1206	9.6
	Hispanic	0	0.0	570	4.5
	Asian	0	0.0	125	1.0
	Other	0	0.0	216	1.7
	Not Reported	0	0.0	6	0.0

		----- Program -----		--- National ---	
		Number	%	Number	%
<b>Previous Heart Transplant</b>	No	98	99.0	12231	96.9
	Yes	1	1.0	344	2.7
	Not Reported	0	0.0	52	0.4
<b>On Ventilator at Transplant</b>	No	95	96.0	11892	94.2
	Yes	4	4.0	663	5.3
	Not Reported	0	0.0	72	0.6
<b>On VAD at Transplant</b>	No	95	96.0	12187	96.5
	Yes	4	4.0	366	2.9
	Not Reported	0	0.0	74	0.6
<b>On IABP at Transplant</b>	No	94	94.9	11754	93.1
	Yes	5	5.1	801	6.3
	Not Reported	0	0.0	72	0.6
<b>Diagnosis at Transplant</b>	Coronary Artery Disease	49	49.5	5222	41.4
	Cardiomyopathy	47	47.5	5779	45.8
	Eisenmenger's Syndrome/Congenital	2	2.0	933	7.4
	Valvular Heart Disease	0	0.0	476	3.8
	Other Diagnosis	1	1.0	183	1.4
	Not Reported	0	0.0	34	0.3
<b>Medical Condition at Transplant</b>	Not Hospitalized	50	50.5	5606	44.4
	Hospitalized	1	1.0	986	7.8
	In ICU	48	48.5	6019	47.7
	Not Reported	0	0.0	16	0.1
<b>Cold Ischemia Time</b>	Up to 2 hrs	48	48.5	3458	27.4
	> 2 - 2.5 hrs	25	25.3	2271	18.0
	> 2.5 - 3 hrs	15	15.2	2408	19.1
	> 3 - 3.5 hrs	7	7.1	1949	15.4
	> 3.5 hrs	4	4.0	2453	19.4
	Not Reported	0	0.0	88	0.7
<b>Year of Transplant</b>	1988	11	11.1	1649	13.1
	1989	12	12.1	1677	13.3
	1990	18	18.2	2071	16.4
	1991	17	17.2	2098	16.6
	1992	18	18.2	2145	17.0
	1993	18	18.2	2266	17.9
	1994	5	5.1	721	5.7

Source: UNOS OPTN/Scientific Registry data.

**Response From: Ohio State University Hospitals  
410 West Tenth Street, Columbus, OH 43210  
Provider Number 360085 (OHOU)**

May 2, 1997

The Ohio State University Medical Center's Heart Transplant Program was begun in July 1986. Since that time 155 heart transplants have been performed at the Ohio State University, with an overall one and three-year survival that is equivalent to the national average. The data released on our transplant program includes patients transplanted between January 1988 and April 1994. The one-month survival is slightly below expected, but the one-year survival is not significantly different than expected and the three-year and conditional three-year survival is slightly but not significantly better than expected. Although one-month survival is important, it is clearly not as important as patient survival for one and three years.

In addition, the Ohio State University has performed thirty transplants since April 1994. The one-month survival for this patient population is ninety percent, with no additional mortality during follow-up thus far. These results reflect continuing improvement in survival in our patient population.

The Ohio State University Medical Center's Heart Transplant Program met stringent membership criteria in order to become a member of UNOS. We are proud of our transplant program and will endeavor to continue providing the finest patient care available found anywhere in the United States.

P. David Myerowitz, M.D.

Carl V. Leier, M.D.

Co-Directors, Heart Transplant Program





## Heart Transplants: January 1, 1988 - April 30, 1994

Survival Report for University of Cincinnati Medical Center - Cincinnati OH  
Provider Number 360003 (OHUC)Graft Survival

	Era 1: 1/1/88-4/30/92			Era 2: 5/1/92-4/30/94			Overall: 1/1/88-4/30/94						
Time Point	No. of TX	Act. Rate (%)	Exp. Rate (%)	No. of TX	Act. Rate (%)	Exp. Rate (%)	No. of TX	No. <sup>1</sup> w/CFU	No. Failed	Act. Rate (%)	Exp. Rate (%)	Diff. (%)	p- <sup>2</sup> value
1 Month	71	97.2	94.0	38	94.7	93.7	109	109	4	96.3	93.9	2.4	0.28
1 Year	71	90.1	85.1	38	89.5	84.6	109	109	11	89.9	84.9	5.0	0.14
Cond. <sup>3</sup> 3 Years	64	90.6	90.8				64	64	6	90.6	90.8	-0.2	0.96
3 Years <sup>3</sup>		81.7	77.3										

Patient Survival

	Era 1: 1/1/88-4/30/92			Era 2: 5/1/92-4/30/94			Overall: 1/1/88-4/30/94						
Time Point	No. of Pts. <sup>4</sup>	Act. Rate (%)	Exp. Rate (%)	No. of Pts. <sup>4</sup>	Act. Rate (%)	Exp. Rate (%)	No. of Pts. <sup>4</sup>	No. <sup>1,5</sup> w/CFU	No. <sup>5</sup> Died	Act. Rate (%)	Exp. Rate (%)	Diff. (%)	p- <sup>2</sup> value
1 Month	71	97.2	94.2	38	94.7	93.9	109	109.0	4.0	96.3	94.1	2.2	0.32
1 Year	71	90.1	85.7	38	89.5	85.0	109	109.0	11.0	89.9	85.4	4.5	0.18
Cond. <sup>3</sup> 3 Years	64	90.6	91.2				64	64.0	6.0	90.6	91.2	-0.6	0.86
3 Years <sup>3</sup>		81.7	78.1										

Notes: <sup>1</sup> No. with complete follow-up (CFU) is the total of the number of patients (grafts) whose status was known during the specified time interval.

<sup>2</sup> A p-value followed by an \* indicates that the difference is statistically significant at the 0.05 level.

<sup>3</sup> Conditional 3 year survival rates are the survival rates conditional on survival at 1 year. These are computed based on transplants between 1/1/88 and 4/30/92. Three year survival rates are computed by multiplying the 1 year and the conditional 3 year survival rates.

<sup>4</sup> The numbers of patients in Era 1 and Era 2 do not necessarily add up to the number of patients in the overall period, due to repeat transplants in different eras for some patients.

<sup>5</sup> No. w/CFU or No. Died may be fractional if patients received more than one transplant at the program.

Source: UNOS OPTN/Scientific Registry data.

**Heart Transplants: January 1, 1988 - April 30, 1994**  
**Donor and Recipient Characteristics: Program and National Frequencies**

**University of Cincinnati Medical Center - Cincinnati OH**  
**Provider Number 360003 (OHUC)**

		----- Program -----		--- National ---	
		Number	%	Number	%
<b>Total Transplants and Percentages</b>		<b>109</b>	<b>100.0</b>	<b>12627</b>	<b>100.0</b>
<b>Donor Age</b>	0-5	0	0.0	799	6.3
	6-10	0	0.0	274	2.2
	11-17	18	16.5	2029	16.1
	18-49	87	79.8	8923	70.7
	50-64	4	3.7	589	4.7
	65+	0	0.0	12	0.1
	Not Reported	0	0.0	1	0.0
<b>Donor Gender</b>	Female	27	24.8	3728	29.5
	Male	82	75.2	8899	70.5
<b>Donor Race</b>	White	97	89.0	10036	79.5
	Black	11	10.1	1263	10.0
	Hispanic	0	0.0	1143	9.1
	Asian	0	0.0	90	0.7
	Other	1	0.9	87	0.7
	Not Reported	0	0.0	8	0.1
<b>Recipient Age</b>	<1	0	0.0	549	4.3
	1-10	0	0.0	431	3.4
	11-17	1	0.9	358	2.8
	18-49	44	40.4	4493	35.6
	50-64	62	56.9	6373	50.5
	65+	2	1.8	423	3.3
<b>Recipient Gender</b>	Female	25	22.9	2761	21.9
	Male	84	77.1	9866	78.1
<b>Recipient Race</b>	White	95	87.2	10504	83.2
	Black	14	12.8	1206	9.6
	Hispanic	0	0.0	570	4.5
	Asian	0	0.0	125	1.0
	Other	0	0.0	216	1.7
	Not Reported	0	0.0	6	0.0

		----- Program -----		--- National ---	
		Number	%	Number	%
<b>Previous Heart Transplant</b>	No	109	100.0	12231	96.9
	Yes	0	0.0	344	2.7
	Not Reported	0	0.0	52	0.4
<b>On Ventilator at Transplant</b>	No	106	97.2	11892	94.2
	Yes	3	2.8	663	5.3
	Not Reported	0	0.0	72	0.6
<b>On VAD at Transplant</b>	No	108	99.1	12187	96.5
	Yes	1	0.9	366	2.9
	Not Reported	0	0.0	74	0.6
<b>On IABP at Transplant</b>	No	107	98.2	11754	93.1
	Yes	2	1.8	801	6.3
	Not Reported	0	0.0	72	0.6
<b>Diagnosis at Transplant</b>	Coronary Artery Disease	51	46.8	5222	41.4
	Cardiomyopathy	56	51.4	5779	45.8
	Eisenmenger's Syndrome/Congenital	1	0.9	933	7.4
	Valvular Heart Disease	1	0.9	476	3.8
	Other Diagnosis	0	0.0	183	1.4
	Not Reported	0	0.0	34	0.3
<b>Medical Condition at Transplant</b>	Not Hospitalized	58	53.2	5606	44.4
	Hospitalized	8	7.3	986	7.8
	In ICU	43	39.4	6019	47.7
	Not Reported	0	0.0	16	0.1
<b>Cold Ischemia Time</b>	Up to 2 hrs	60	55.0	3458	27.4
	> 2 - 2.5 hrs	17	15.6	2271	18.0
	> 2.5 - 3 hrs	11	10.1	2408	19.1
	> 3 - 3.5 hrs	6	5.5	1949	15.4
	> 3.5 hrs	6	5.5	2453	19.4
	Not Reported	9	8.3	88	0.7
<b>Year of Transplant</b>	1988	13	11.9	1649	13.1
	1989	10	9.2	1677	13.3
	1990	17	15.6	2071	16.4
	1991	24	22.0	2098	16.6
	1992	19	17.4	2145	17.0
	1993	22	20.2	2266	17.9
	1994	4	3.7	721	5.7

Source: UNOS OPTN/Scientific Registry data.

## Heart Transplants: January 1, 1988 - April 30, 1994

Survival Report for University Hospitals - Cleveland OH  
Provider Number 360137 (OHUH)Graft Survival

	Era 1: 1/1/88-4/30/92			Era 2: 5/1/92-4/30/94			Overall: 1/1/88-4/30/94						
Time Point	No. of TX	Act. Rate (%)	Exp. Rate (%)	No. of TX	Act. Rate (%)	Exp. Rate (%)	No. of TX	No. <sup>1</sup> w/CFU	No. Failed	Act. Rate (%)	Exp. Rate (%)	Diff. (%)	p- <sup>2</sup> value
1 Month	17	88.2	92.7	6	66.7	92.1	23	23	4	82.6	92.6	-10.0	0.06
1 Year	17	64.7	83.2	6	66.7	83.1	23	23	8	65.2	83.2	-17.9	0.02*
Cond. <sup>3</sup> 3 Years	11	63.6	90.8				11	11	4	63.6	90.8	-27.2	<0.01*
3 Years <sup>3</sup>		41.2	75.5										

Patient Survival

	Era 1: 1/1/88-4/30/92			Era 2: 5/1/92-4/30/94			Overall: 1/1/88-4/30/94						
Time Point	No. of Pts. <sup>4</sup>	Act. Rate (%)	Exp. Rate (%)	No. of Pts. <sup>4</sup>	Act. Rate (%)	Exp. Rate (%)	No. of Pts. <sup>4</sup>	No. <sup>1,5</sup> w/CFU	No. <sup>5</sup> Died	Act. Rate (%)	Exp. Rate (%)	Diff. (%)	p- <sup>2</sup> value
1 Month	17	88.2	93.0	6	66.7	92.5	23	23.0	4.0	82.6	92.9	-10.3	0.05
1 Year	17	64.7	83.9	6	66.7	83.9	23	23.0	8.0	65.2	83.9	-18.7	0.01*
Cond. <sup>3</sup> 3 Years	11	63.6	91.2				11	11.0	4.0	63.6	91.2	-27.6	<0.01*
3 Years <sup>3</sup>		41.2	76.5										

Notes: <sup>1</sup> No. with complete follow-up (CFU) is the total of the number of patients (grafts) whose status was known during the specified time interval.

<sup>2</sup> A p-value followed by an \* indicates that the difference is statistically significant at the 0.05 level.

<sup>3</sup> Conditional 3 year survival rates are the survival rates conditional on survival at 1 year. These are computed based on transplants between 1/1/88 and 4/30/92. Three year survival rates are computed by multiplying the 1 year and the conditional 3 year survival rates.

<sup>4</sup> The numbers of patients in Era 1 and Era 2 do not necessarily add up to the number of patients in the overall period, due to repeat transplants in different eras for some patients.

<sup>5</sup> No. w/CFU or No. Died may be fractional if patients received more than one transplant at the program.

Source: UNOS OPTN/Scientific Registry data.

**Heart Transplants: January 1, 1988 - April 30, 1994**  
**Donor and Recipient Characteristics: Program and National Frequencies**

**University Hospitals - Cleveland OH**  
**Provider Number 360137 (OHUH)**

		----- Program -----		--- National ---	
		Number	%	Number	%
<b>Total Transplants and Percentages</b>		<b>23</b>	<b>100.0</b>	<b>12627</b>	<b>100.0</b>
<b>Donor Age</b>	0-5	2	8.7	799	6.3
	6-10	0	0.0	274	2.2
	11-17	1	4.3	2029	16.1
	18-49	20	87.0	8923	70.7
	50-64	0	0.0	589	4.7
	65+	0	0.0	12	0.1
	Not Reported	0	0.0	1	0.0
<b>Donor Gender</b>	Female	7	30.4	3728	29.5
	Male	16	69.6	8899	70.5
<b>Donor Race</b>	White	18	78.3	10036	79.5
	Black	4	17.4	1263	10.0
	Hispanic	1	4.3	1143	9.1
	Asian	0	0.0	90	0.7
	Other	0	0.0	87	0.7
	Not Reported	0	0.0	8	0.1
<b>Recipient Age</b>	<1	1	4.3	549	4.3
	1-10	1	4.3	431	3.4
	11-17	2	8.7	358	2.8
	18-49	9	39.1	4493	35.6
	50-64	10	43.5	6373	50.5
	65+	0	0.0	423	3.3
<b>Recipient Gender</b>	Female	6	26.1	2761	21.9
	Male	17	73.9	9866	78.1
<b>Recipient Race</b>	White	21	91.3	10504	83.2
	Black	2	8.7	1206	9.6
	Hispanic	0	0.0	570	4.5
	Asian	0	0.0	125	1.0
	Other	0	0.0	216	1.7
	Not Reported	0	0.0	6	0.0

		---- Program ----		--- National ---	
		Number	%	Number	%
<b>Previous Heart Transplant</b>	No	23	100.0	12231	96.9
	Yes	0	0.0	344	2.7
	Not Reported	0	0.0	52	0.4
<b>On Ventilator at Transplant</b>	No	21	91.3	11892	94.2
	Yes	2	8.7	663	5.3
	Not Reported	0	0.0	72	0.6
<b>On VAD at Transplant</b>	No	23	100.0	12187	96.5
	Yes	0	0.0	366	2.9
	Not Reported	0	0.0	74	0.6
<b>On IABP at Transplant</b>	No	22	95.7	11754	93.1
	Yes	1	4.3	801	6.3
	Not Reported	0	0.0	72	0.6
<b>Diagnosis at Transplant</b>	Coronary Artery Disease	8	34.8	5222	41.4
	Cardiomyopathy	12	52.2	5779	45.8
	Eisenmenger's Syndrome/Congenital	2	8.7	933	7.4
	Valvular Heart Disease	1	4.3	476	3.8
	Other Diagnosis	0	0.0	183	1.4
	Not Reported	0	0.0	34	0.3
<b>Medical Condition at Transplant</b>	Not Hospitalized	8	34.8	5606	44.4
	Hospitalized	3	13.0	986	7.8
	In ICU	12	52.2	6019	47.7
	Not Reported	0	0.0	16	0.1
<b>Cold Ischemia Time</b>	Up to 2 hrs	6	26.1	3458	27.4
	> 2 - 2.5 hrs	2	8.7	2271	18.0
	> 2.5 - 3 hrs	4	17.4	2408	19.1
	> 3 - 3.5 hrs	2	8.7	1949	15.4
	> 3.5 hrs	9	39.1	2453	19.4
	Not Reported	0	0.0	88	0.7
<b>Year of Transplant</b>	1988	5	21.7	1649	13.1
	1989	5	21.7	1677	13.3
	1990	2	8.7	2071	16.4
	1991	4	17.4	2098	16.6
	1992	7	30.4	2145	17.0
	1993	0	0.0	2266	17.9
	1994	0	0.0	721	5.7

Source: UNOS OPTN/Scientific Registry data.



## Heart Transplants: January 1, 1988 - April 30, 1994

Survival Report for Integris Baptist Medical Center - Oklahoma City OK  
Provider Number 370028 (OKBC)Graft Survival

	Era 1: 1/1/88-4/30/92			Era 2: 5/1/92-4/30/94			Overall: 1/1/88-4/30/94						
Time Point	No. of TX	Act. Rate (%)	Exp. Rate (%)	No. of TX	Act. Rate (%)	Exp. Rate (%)	No. of TX	No. <sup>1</sup> w/CFU	No. Failed	Act. Rate (%)	Exp. Rate (%)	Diff. (%)	p- <sup>2</sup> value
1 Month	109	97.2	91.9	44	97.7	91.7	153	153	4	97.4	91.9	5.5	0.01*
1 Year	109	89.9	82.6	44	90.9	81.4	153	152	15	90.2	82.2	8.0	<0.01*
Cond. <sup>3</sup> 3 Years	97	89.6	90.9				97	96	10	89.6	90.9	-1.3	0.65
3 Years <sup>3</sup>		80.6	75.1										

Patient Survival

	Era 1: 1/1/88-4/30/92			Era 2: 5/1/92-4/30/94			Overall: 1/1/88-4/30/94						
Time Point	No. of Pts. <sup>4</sup>	Act. Rate (%)	Exp. Rate (%)	No. of Pts. <sup>4</sup>	Act. Rate (%)	Exp. Rate (%)	No. of Pts. <sup>4</sup>	No. <sup>1,5</sup> w/CFU	No. <sup>5</sup> Died	Act. Rate (%)	Exp. Rate (%)	Diff. (%)	p- <sup>2</sup> value
1 Month	108	97.2	92.4	44	97.7	92.1	152	152.0	4.0	97.4	92.3	5.1	0.02*
1 Year	108	89.8	83.3	44	90.9	81.9	152	151.0	15.0	90.1	82.9	7.3	0.02*
Cond. <sup>3</sup> 3 Years	96	90.6	91.3				96	95.0	9.0	90.6	91.3	-0.8	0.79
3 Years <sup>3</sup>		81.3	76.1										

- Notes: <sup>1</sup> No. with complete follow-up (CFU) is the total of the number of patients (grafts) whose status was known during the specified time interval.
- <sup>2</sup> A p-value followed by an \* indicates that the difference is statistically significant at the 0.05 level.
- <sup>3</sup> Conditional 3 year survival rates are the survival rates conditional on survival at 1 year. These are computed based on transplants between 1/1/88 and 4/30/92. Three year survival rates are computed by multiplying the 1 year and the conditional 3 year survival rates.
- <sup>4</sup> The numbers of patients in Era 1 and Era 2 do not necessarily add up to the number of patients in the overall period, due to repeat transplants in different eras for some patients.
- <sup>5</sup> No. w/CFU or No. Died may be fractional if patients received more than one transplant at the program.

Source: UNOS OPTN/Scientific Registry data.



**Heart Transplants: January 1, 1988 - April 30, 1994**  
**Donor and Recipient Characteristics: Program and National Frequencies**

**Integrus Baptist Medical Center - Oklahoma City OK**  
**Provider Number 370028 (OKBC)**

		----- Program -----		--- National ---	
		Number	%	Number	%
<b>Total Transplants and Percentages</b>		<b>153</b>	<b>100.0</b>	<b>12627</b>	<b>100.0</b>
<b>Donor Age</b>	0-5	0	0.0	799	6.3
	6-10	1	0.7	274	2.2
	11-17	32	20.9	2029	16.1
	18-49	112	73.2	8923	70.7
	50-64	8	5.2	589	4.7
	65+	0	0.0	12	0.1
	Not Reported	0	0.0	1	0.0
<b>Donor Gender</b>	Female	69	45.1	3728	29.5
	Male	84	54.9	8899	70.5
<b>Donor Race</b>	White	135	88.2	10036	79.5
	Black	5	3.3	1263	10.0
	Hispanic	9	5.9	1143	9.1
	Asian	2	1.3	90	0.7
	Other	2	1.3	87	0.7
	Not Reported	0	0.0	8	0.1
<b>Recipient Age</b>	<1	0	0.0	549	4.3
	1-10	0	0.0	431	3.4
	11-17	2	1.3	358	2.8
	18-49	59	38.6	4493	35.6
	50-64	83	54.2	6373	50.5
	65+	9	5.9	423	3.3
<b>Recipient Gender</b>	Female	29	19.0	2761	21.9
	Male	124	81.0	9866	78.1
<b>Recipient Race</b>	White	141	92.2	10504	83.2
	Black	7	4.6	1206	9.6
	Hispanic	2	1.3	570	4.5
	Asian	0	0.0	125	1.0
	Other	3	2.0	216	1.7
	Not Reported	0	0.0	6	0.0

		----- Program -----		--- National ---	
		Number	%	Number	%
<b>Previous Heart Transplant</b>	No	150	98.0	12231	96.9
	Yes	3	2.0	344	2.7
	Not Reported	0	0.0	52	0.4
<b>On Ventilator at Transplant</b>	No	150	98.0	11892	94.2
	Yes	3	2.0	663	5.3
	Not Reported	0	0.0	72	0.6
<b>On VAD at Transplant</b>	No	153	100.0	12187	96.5
	Yes	0	0.0	366	2.9
	Not Reported	0	0.0	74	0.6
<b>On IABP at Transplant</b>	No	143	93.5	11754	93.1
	Yes	10	6.5	801	6.3
	Not Reported	0	0.0	72	0.6
<b>Diagnosis at Transplant</b>	Coronary Artery Disease	91	59.5	5222	41.4
	Cardiomyopathy	56	36.6	5779	45.8
	Eisenmenger's Syndrome/Congenital	1	0.7	933	7.4
	Valvular Heart Disease	2	1.3	476	3.8
	Other Diagnosis	2	1.3	183	1.4
	Not Reported	1	0.7	34	0.3
<b>Medical Condition at Transplant</b>	Not Hospitalized	55	35.9	5606	44.4
	Hospitalized	10	6.5	986	7.8
	In ICU	88	57.5	6019	47.7
	Not Reported	0	0.0	16	0.1
<b>Cold Ischemia Time</b>	Up to 2 hrs	56	36.6	3458	27.4
	> 2 - 2.5 hrs	22	14.4	2271	18.0
	> 2.5 - 3 hrs	31	20.3	2408	19.1
	> 3 - 3.5 hrs	19	12.4	1949	15.4
	> 3.5 hrs	25	16.3	2453	19.4
	Not Reported	0	0.0	88	0.7
<b>Year of Transplant</b>	1988	32	20.9	1649	13.1
	1989	21	13.7	1677	13.3
	1990	25	16.3	2071	16.4
	1991	24	15.7	2098	16.6
	1992	27	17.6	2145	17.0
	1993	17	11.1	2266	17.9
	1994	7	4.6	721	5.7

Source: UNOS OPTN/Scientific Registry data.

## Heart Transplants: January 1, 1988 - April 30, 1994

Survival Report for Children's Hospital of Oklahoma - Oklahoma City OK  
Provider Number 370167 (OKCM)Graft Survival

	Era 1: 1/1/88-4/30/92			Era 2: 5/1/92-4/30/94			Overall: 1/1/88-4/30/94						
Time Point	No. of TX	Act. Rate (%)	Exp. Rate (%)	No. of TX	Act. Rate (%)	Exp. Rate (%)	No. of TX	No. <sup>1</sup> w/CFU	No. Failed	Act. Rate (%)	Exp. Rate (%)	Diff. (%)	p- <sup>2</sup> value
1 Month	13	53.8	79.5	2	100.0	82.6	15	15	6	60.0	79.9	-19.9	0.04*
1 Year	13	30.8	65.9	2	100.0	70.9	15	15	9	40.0	66.6	-26.6	0.02*
Cond. <sup>3</sup> 3 Years	4	75.0	87.9				4	4	1	75.0	87.9	-12.9	0.40
3 Years <sup>3</sup>		23.1	58.0										

Patient Survival

	Era 1: 1/1/88-4/30/92			Era 2: 5/1/92-4/30/94			Overall: 1/1/88-4/30/94						
Time Point	No. of Pts. <sup>4</sup>	Act. Rate (%)	Exp. Rate (%)	No. of Pts. <sup>4</sup>	Act. Rate (%)	Exp. Rate (%)	No. of Pts. <sup>4</sup>	No. <sup>1,5</sup> w/CFU	No. <sup>5</sup> Died	Act. Rate (%)	Exp. Rate (%)	Diff. (%)	p- <sup>2</sup> value
1 Month	12	50.0	80.9	2	100.0	83.5	14	14.0	6.0	57.1	81.3	-24.2	0.02*
1 Year	12	33.3	68.2	2	100.0	72.3	14	14.0	8.0	42.9	68.8	-26.0	0.03*
Cond. <sup>3</sup> 3 Years	4	75.0	89.1				4	4.0	1.0	75.0	89.1	-14.1	0.37
3 Years <sup>3</sup>		25.0	60.8										

Notes: <sup>1</sup> No. with complete follow-up (CFU) is the total of the number of patients (grafts) whose status was known during the specified time interval.

<sup>2</sup> A p-value followed by an \* indicates that the difference is statistically significant at the 0.05 level.

<sup>3</sup> Conditional 3 year survival rates are the survival rates conditional on survival at 1 year. These are computed based on transplants between 1/1/88 and 4/30/92. Three year survival rates are computed by multiplying the 1 year and the conditional 3 year survival rates.

<sup>4</sup> The numbers of patients in Era 1 and Era 2 do not necessarily add up to the number of patients in the overall period, due to repeat transplants in different eras for some patients.

<sup>5</sup> No. w/CFU or No. Died may be fractional if patients received more than one transplant at the program.

Source: UNOS OPTN/Scientific Registry data.

**Heart Transplants: January 1, 1988 - April 30, 1994**  
**Donor and Recipient Characteristics: Program and National Frequencies**

**Children's Hospital of Oklahoma - Oklahoma City OK**  
**Provider Number 370167 (OKCM)**

		----- Program -----		--- National ---	
		Number	%	Number	%
<b>Total Transplants and Percentages</b>		<b>15</b>	<b>100.0</b>	<b>12627</b>	<b>100.0</b>
<b>Donor Age</b>	0-5	15	100.0	799	6.3
	6-10	0	0.0	274	2.2
	11-17	0	0.0	2029	16.1
	18-49	0	0.0	8923	70.7
	50-64	0	0.0	589	4.7
	65+	0	0.0	12	0.1
	Not Reported	0	0.0	1	0.0
<b>Donor Gender</b>	Female	7	46.7	3728	29.5
	Male	8	53.3	8899	70.5
<b>Donor Race</b>	White	11	73.3	10036	79.5
	Black	3	20.0	1263	10.0
	Hispanic	1	6.7	1143	9.1
	Asian	0	0.0	90	0.7
	Other	0	0.0	87	0.7
	Not Reported	0	0.0	8	0.1
<b>Recipient Age</b>	<1	13	86.7	549	4.3
	1-10	2	13.3	431	3.4
	11-17	0	0.0	358	2.8
	18-49	0	0.0	4493	35.6
	50-64	0	0.0	6373	50.5
	65+	0	0.0	423	3.3
<b>Recipient Gender</b>	Female	5	33.3	2761	21.9
	Male	10	66.7	9866	78.1
<b>Recipient Race</b>	White	14	93.3	10504	83.2
	Black	1	6.7	1206	9.6
	Hispanic	0	0.0	570	4.5
	Asian	0	0.0	125	1.0
	Other	0	0.0	216	1.7
	Not Reported	0	0.0	6	0.0

		----- Program -----		--- National ---	
		Number	%	Number	%
<b>Previous Heart Transplant</b>	No	14	93.3	12231	96.9
	Yes	1	6.7	344	2.7
	Not Reported	0	0.0	52	0.4
<b>On Ventilator at Transplant</b>	No	11	73.3	11892	94.2
	Yes	4	26.7	663	5.3
	Not Reported	0	0.0	72	0.6
<b>On VAD at Transplant</b>	No	15	100.0	12187	96.5
	Yes	0	0.0	366	2.9
	Not Reported	0	0.0	74	0.6
<b>On IABP at Transplant</b>	No	14	93.3	11754	93.1
	Yes	1	6.7	801	6.3
	Not Reported	0	0.0	72	0.6
<b>Diagnosis at Transplant</b>	Coronary Artery Disease	0	0.0	5222	41.4
	Cardiomyopathy	2	13.3	5779	45.8
	Eisenmenger's Syndrome/Congenital	12	80.0	933	7.4
	Valvular Heart Disease	0	0.0	476	3.8
	Other Diagnosis	1	6.7	183	1.4
	Not Reported	0	0.0	34	0.3
<b>Medical Condition at Transplant</b>	Not Hospitalized	2	13.3	5606	44.4
	Hospitalized	0	0.0	986	7.8
	In ICU	13	86.7	6019	47.7
	Not Reported	0	0.0	16	0.1
<b>Cold Ischemia Time</b>	Up to 2 hrs	1	6.7	3458	27.4
	> 2 - 2.5 hrs	0	0.0	2271	18.0
	> 2.5 - 3 hrs	0	0.0	2408	19.1
	> 3 - 3.5 hrs	2	13.3	1949	15.4
	> 3.5 hrs	10	66.7	2453	19.4
	Not Reported	2	13.3	88	0.7
<b>Year of Transplant</b>	1988	1	6.7	1649	13.1
	1989	5	33.3	1677	13.3
	1990	4	26.7	2071	16.4
	1991	3	20.0	2098	16.6
	1992	1	6.7	2145	17.0
	1993	1	6.7	2266	17.9
	1994	0	0.0	721	5.7

Source: UNOS OPTN/Scientific Registry data.

## Heart Transplants: January 1, 1988 - April 30, 1994

Survival Report for University Hospital - Oklahoma City OK  
Provider Number 370035 (OKMD)Graft Survival

	Era 1: 1/1/88-4/30/92			Era 2: 5/1/92-4/30/94			Overall: 1/1/88-4/30/94						
Time Point	No. of TX	Act. Rate (%)	Exp. Rate (%)	No. of TX	Act. Rate (%)	Exp. Rate (%)	No. of TX	No. <sup>1</sup> w/CFU	No. Failed	Act. Rate (%)	Exp. Rate (%)	Diff. (%)	p- <sup>2</sup> value
1 Month	15	80.0	91.4	12	100.0	94.4	27	26	3	88.5	92.7	-4.2	0.40
1 Year	15	73.3	82.5	12	81.8	85.7	27	26	6	76.9	83.8	-6.9	0.33
Cond. <sup>3</sup> 3 Years	11	72.6	91.0				11	10	3	72.6	91.0	-18.4	0.03*
3 Years <sup>3</sup>		53.2	75.0										

Patient Survival

	Era 1: 1/1/88-4/30/92			Era 2: 5/1/92-4/30/94			Overall: 1/1/88-4/30/94						
Time Point	No. of Pts. <sup>4</sup>	Act. Rate (%)	Exp. Rate (%)	No. of Pts. <sup>4</sup>	Act. Rate (%)	Exp. Rate (%)	No. of Pts. <sup>4</sup>	No. <sup>1,5</sup> w/CFU	No. <sup>5</sup> Died	Act. Rate (%)	Exp. Rate (%)	Diff. (%)	p- <sup>2</sup> value
1 Month	15	80.0	92.0	12	100.0	94.7	27	26.0	3.0	88.5	93.1	-4.7	0.34
1 Year	15	73.3	83.1	12	81.8	86.2	27	26.0	6.0	76.9	84.4	-7.5	0.28
Cond. <sup>3</sup> 3 Years	11	72.6	91.5				11	10.0	3.0	72.6	91.5	-18.9	0.02*
3 Years <sup>3</sup>		53.2	76.1										

Notes: <sup>1</sup> No. with complete follow-up (CFU) is the total of the number of patients (grafts) whose status was known during the specified time interval.

<sup>2</sup> A p-value followed by an \* indicates that the difference is statistically significant at the 0.05 level.

<sup>3</sup> Conditional 3 year survival rates are the survival rates conditional on survival at 1 year. These are computed based on transplants between 1/1/88 and 4/30/92. Three year survival rates are computed by multiplying the 1 year and the conditional 3 year survival rates.

<sup>4</sup> The numbers of patients in Era 1 and Era 2 do not necessarily add up to the number of patients in the overall period, due to repeat transplants in different eras for some patients.

<sup>5</sup> No. w/CFU or No. Died may be fractional if patients received more than one transplant at the program.

Source: UNOS OPTN/Scientific Registry data.

**Heart Transplants: January 1, 1988 - April 30, 1994**  
**Donor and Recipient Characteristics: Program and National Frequencies**

**University Hospital - Oklahoma City OK**  
**Provider Number 370035 (OKMD)**

		----- Program -----		--- National ---	
		Number	%	Number	%
<b>Total Transplants and Percentages</b>		<b>27</b>	<b>100.0</b>	<b>12627</b>	<b>100.0</b>
<b>Donor Age</b>	0-5	0	0.0	799	6.3
	6-10	0	0.0	274	2.2
	11-17	5	18.5	2029	16.1
	18-49	21	77.8	8923	70.7
	50-64	1	3.7	589	4.7
	65+	0	0.0	12	0.1
	Not Reported	0	0.0	1	0.0
<b>Donor Gender</b>	Female	8	29.6	3728	29.5
	Male	19	70.4	8899	70.5
<b>Donor Race</b>	White	24	88.9	10036	79.5
	Black	0	0.0	1263	10.0
	Hispanic	2	7.4	1143	9.1
	Asian	0	0.0	90	0.7
	Other	1	3.7	87	0.7
	Not Reported	0	0.0	8	0.1
<b>Recipient Age</b>	<1	0	0.0	549	4.3
	1-10	0	0.0	431	3.4
	11-17	0	0.0	358	2.8
	18-49	10	37.0	4493	35.6
	50-64	16	59.3	6373	50.5
	65+	1	3.7	423	3.3
<b>Recipient Gender</b>	Female	3	11.1	2761	21.9
	Male	24	88.9	9866	78.1
<b>Recipient Race</b>	White	23	85.2	10504	83.2
	Black	1	3.7	1206	9.6
	Hispanic	1	3.7	570	4.5
	Asian	0	0.0	125	1.0
	Other	2	7.4	216	1.7
	Not Reported	0	0.0	6	0.0



		----- Program -----		--- National ---	
		Number	%	Number	%
<b>Previous Heart Transplant</b>	No	26	96.3	12231	96.9
	Yes	0	0.0	344	2.7
	Not Reported	1	3.7	52	0.4
<b>On Ventilator at Transplant</b>	No	23	85.2	11892	94.2
	Yes	3	11.1	663	5.3
	Not Reported	1	3.7	72	0.6
<b>On VAD at Transplant</b>	No	26	96.3	12187	96.5
	Yes	0	0.0	366	2.9
	Not Reported	1	3.7	74	0.6
<b>On IABP at Transplant</b>	No	25	92.6	11754	93.1
	Yes	1	3.7	801	6.3
	Not Reported	1	3.7	72	0.6
<b>Diagnosis at Transplant</b>	Coronary Artery Disease	13	48.1	5222	41.4
	Cardiomyopathy	12	44.4	5779	45.8
	Eisenmenger's Syndrome/Congenital	0	0.0	933	7.4
	Valvular Heart Disease	0	0.0	476	3.8
	Other Diagnosis	2	7.4	183	1.4
	Not Reported	0	0.0	34	0.3
<b>Medical Condition at Transplant</b>	Not Hospitalized	10	37.0	5606	44.4
	Hospitalized	1	3.7	986	7.8
	In ICU	16	59.3	6019	47.7
	Not Reported	0	0.0	16	0.1
<b>Cold Ischemia Time</b>	Up to 2 hrs	12	44.4	3458	27.4
	> 2 - 2.5 hrs	7	25.9	2271	18.0
	> 2.5 - 3 hrs	3	11.1	2408	19.1
	> 3 - 3.5 hrs	2	7.4	1949	15.4
	> 3.5 hrs	3	11.1	2453	19.4
	Not Reported	0	0.0	88	0.7
<b>Year of Transplant</b>	1988	3	11.1	1649	13.1
	1989	6	22.2	1677	13.3
	1990	2	7.4	2071	16.4
	1991	2	7.4	2098	16.6
	1992	5	18.5	2145	17.0
	1993	7	25.9	2266	17.9
	1994	2	7.4	721	5.7

Source: UNOS OPTN/Scientific Registry data.

## Heart Transplants: January 1, 1988 - April 30, 1994

Survival Report for St Francis Hospital - Tulsa OK  
Provider Number 370091 (OKSF)Graft Survival

	Era 1: 1/1/88-4/30/92			Era 2: 5/1/92-4/30/94			Overall: 1/1/88-4/30/94						
Time Point	No. of TX	Act. Rate (%)	Exp. Rate (%)	No. of TX	Act. Rate (%)	Exp. Rate (%)	No. of TX	No. <sup>1</sup> w/CFU	No. Failed	Act. Rate (%)	Exp. Rate (%)	Diff. (%)	p- <sup>2</sup> value
1 Month				9	88.9	91.8	9	9	1	88.9	91.8	-2.9	0.75
1 Year				9	77.8	82.5	9	9	2	77.8	82.5	-4.7	0.70
Cond. <sup>3</sup> 3 Years													
3 Years <sup>3</sup>													

Patient Survival

	Era 1: 1/1/88-4/30/92			Era 2: 5/1/92-4/30/94			Overall: 1/1/88-4/30/94						
Time Point	No. of Pts. <sup>4</sup>	Act. Rate (%)	Exp. Rate (%)	No. of Pts. <sup>4</sup>	Act. Rate (%)	Exp. Rate (%)	No. of Pts. <sup>4</sup>	No. <sup>1,5</sup> w/CFU	No. <sup>5</sup> Died	Act. Rate (%)	Exp. Rate (%)	Diff. (%)	p- <sup>2</sup> value
1 Month				9	88.9	92.2	9	9.0	1.0	88.9	92.2	-3.3	0.71
1 Year				9	77.8	83.0	9	9.0	2.0	77.8	83.0	-5.2	0.68
Cond. <sup>3</sup> 3 Years													
3 Years <sup>3</sup>													

Notes: <sup>1</sup> No. with complete follow-up (CFU) is the total of the number of patients (grafts) whose status was known during the specified time interval.

<sup>2</sup> A p-value followed by an \* indicates that the difference is statistically significant at the 0.05 level.

<sup>3</sup> Conditional 3 year survival rates are the survival rates conditional on survival at 1 year. These are computed based on transplants between 1/1/88 and 4/30/92. Three year survival rates are computed by multiplying the 1 year and the conditional 3 year survival rates.

<sup>4</sup> The numbers of patients in Era 1 and Era 2 do not necessarily add up to the number of patients in the overall period, due to repeat transplants in different eras for some patients.

<sup>5</sup> No. w/CFU or No. Died may be fractional if patients received more than one transplant at the program.

Source: UNOS OPTN/Scientific Registry data.

**Heart Transplants: January 1, 1988 - April 30, 1994**  
**Donor and Recipient Characteristics: Program and National Frequencies**

**St Francis Hospital - Tulsa OK**  
**Provider Number 370091 (OKSF)**

		---- Program ----		--- National ---	
		Number	%	Number	%
<b>Total Transplants and Percentages</b>		<b>9</b>	<b>100.0</b>	<b>12627</b>	<b>100.0</b>
<b>Donor Age</b>	0-5	0	0.0	799	6.3
	6-10	0	0.0	274	2.2
	11-17	0	0.0	2029	16.1
	18-49	7	77.8	8923	70.7
	50-64	2	22.2	589	4.7
	65+	0	0.0	12	0.1
	Not Reported	0	0.0	1	0.0
<b>Donor Gender</b>	Female	2	22.2	3728	29.5
	Male	7	77.8	8899	70.5
<b>Donor Race</b>	White	7	77.8	10036	79.5
	Black	1	11.1	1263	10.0
	Hispanic	1	11.1	1143	9.1
	Asian	0	0.0	90	0.7
	Other	0	0.0	87	0.7
	Not Reported	0	0.0	8	0.1
<b>Recipient Age</b>	<1	0	0.0	549	4.3
	1-10	0	0.0	431	3.4
	11-17	0	0.0	358	2.8
	18-49	1	11.1	4493	35.6
	50-64	8	88.9	6373	50.5
	65+	0	0.0	423	3.3
<b>Recipient Gender</b>	Female	3	33.3	2761	21.9
	Male	6	66.7	9866	78.1
<b>Recipient Race</b>	White	9	100.0	10504	83.2
	Black	0	0.0	1206	9.6
	Hispanic	0	0.0	570	4.5
	Asian	0	0.0	125	1.0
	Other	0	0.0	216	1.7
	Not Reported	0	0.0	6	0.0

		----- Program -----		--- National ---	
		Number	%	Number	%
<b>Previous Heart Transplant</b>	No	9	100.0	12231	96.9
	Yes	0	0.0	344	2.7
	Not Reported	0	0.0	52	0.4
<b>On Ventilator at Transplant</b>	No	9	100.0	11892	94.2
	Yes	0	0.0	663	5.3
	Not Reported	0	0.0	72	0.6
<b>On VAD at Transplant</b>	No	9	100.0	12187	96.5
	Yes	0	0.0	366	2.9
	Not Reported	0	0.0	74	0.6
<b>On IABP at Transplant</b>	No	9	100.0	11754	93.1
	Yes	0	0.0	801	6.3
	Not Reported	0	0.0	72	0.6
<b>Diagnosis at Transplant</b>	Coronary Artery Disease	7	77.8	5222	41.4
	Cardiomyopathy	2	22.2	5779	45.8
	Eisenmenger's Syndrome/Congenital	0	0.0	933	7.4
	Valvular Heart Disease	0	0.0	476	3.8
	Other Diagnosis	0	0.0	183	1.4
	Not Reported	0	0.0	34	0.3
<b>Medical Condition at Transplant</b>	Not Hospitalized	5	55.6	5606	44.4
	Hospitalized	0	0.0	986	7.8
	In ICU	4	44.4	6019	47.7
	Not Reported	0	0.0	16	0.1
<b>Cold Ischemia Time</b>	Up to 2 hrs	5	55.6	3458	27.4
	> 2 - 2.5 hrs	0	0.0	2271	18.0
	> 2.5 - 3 hrs	1	11.1	2408	19.1
	> 3 - 3.5 hrs	1	11.1	1949	15.4
	> 3.5 hrs	2	22.2	2453	19.4
	Not Reported	0	0.0	88	0.7
<b>Year of Transplant</b>	1988	0	0.0	1649	13.1
	1989	0	0.0	1677	13.3
	1990	0	0.0	2071	16.4
	1991	0	0.0	2098	16.6
	1992	0	0.0	2145	17.0
	1993	2	22.2	2266	17.9
	1994	7	77.8	721	5.7

Source: UNOS OPTN/Scientific Registry data.

## Heart Transplants: January 1, 1988 - April 30, 1994

Survival Report for Oregon Health Sciences University Hospital - Portland OR  
Provider Number 380009 (ORUO)Graft Survival

	Era 1: 1/1/88-4/30/92			Era 2: 5/1/92-4/30/94			Overall: 1/1/88-4/30/94						
Time Point	No. of TX	Act. Rate (%)	Exp. Rate (%)	No. of TX	Act. Rate (%)	Exp. Rate (%)	No. of TX	No. <sup>1</sup> w/CFU	No. Failed	Act. Rate (%)	Exp. Rate (%)	Diff. (%)	p- <sup>2</sup> value
1 Month	138	92.0	91.8	57	91.2	91.8	195	195	16	91.8	91.8	0.0	1.00
1 Year	138	82.6	81.5	57	86.0	83.2	195	195	32	83.6	82.0	1.6	0.55
Cond. <sup>3</sup> 3 Years	114	95.6	90.7				114	114	5	95.6	90.7	4.9	0.07
3 Years <sup>3</sup>		79.0	73.9										

Patient Survival

	Era 1: 1/1/88-4/30/92			Era 2: 5/1/92-4/30/94			Overall: 1/1/88-4/30/94						
Time Point	No. of Pts. <sup>4</sup>	Act. Rate (%)	Exp. Rate (%)	No. of Pts. <sup>4</sup>	Act. Rate (%)	Exp. Rate (%)	No. of Pts. <sup>4</sup>	No. <sup>1,5</sup> w/CFU	No. <sup>5</sup> Died	Act. Rate (%)	Exp. Rate (%)	Diff. (%)	p- <sup>2</sup> value
1 Month	133	94.0	92.5	57	91.2	92.3	190	190.0	13.0	93.2	92.4	0.8	0.69
1 Year	133	85.7	82.7	57	86.0	83.8	190	190.0	27.0	85.8	83.0	2.8	0.30
Cond. <sup>3</sup> 3 Years	114	95.6	91.2				114	114.0	5.0	95.6	91.2	4.4	0.09
3 Years <sup>3</sup>		82.0	75.4										

- Notes: <sup>1</sup> No. with complete follow-up (CFU) is the total of the number of patients (grafts) whose status was known during the specified time interval.
- <sup>2</sup> A p-value followed by an \* indicates that the difference is statistically significant at the 0.05 level.
- <sup>3</sup> Conditional 3 year survival rates are the survival rates conditional on survival at 1 year. These are computed based on transplants between 1/1/88 and 4/30/92. Three year survival rates are computed by multiplying the 1 year and the conditional 3 year survival rates.
- <sup>4</sup> The numbers of patients in Era 1 and Era 2 do not necessarily add up to the number of patients in the overall period, due to repeat transplants in different eras for some patients.
- <sup>5</sup> No. w/CFU or No. Died may be fractional if patients received more than one transplant at the program.

Source: UNOS OPTN/Scientific Registry data.

**Heart Transplants: January 1, 1988 - April 30, 1994**  
**Donor and Recipient Characteristics: Program and National Frequencies**

**Oregon Health Sciences University Hospital - Portland OR**  
**Provider Number 380009 (ORUO)**

		----- Program -----		--- National ---	
		Number	%	Number	%
<b>Total Transplants and Percentages</b>		<b>195</b>	<b>100.0</b>	<b>12627</b>	<b>100.0</b>
<b>Donor Age</b>	0-5	6	3.1	799	6.3
	6-10	1	0.5	274	2.2
	11-17	30	15.4	2029	16.1
	18-49	151	77.4	8923	70.7
	50-64	7	3.6	589	4.7
	65+	0	0.0	12	0.1
	Not Reported	0	0.0	1	0.0
<b>Donor Gender</b>	Female	61	31.3	3728	29.5
	Male	134	68.7	8899	70.5
<b>Donor Race</b>	White	182	93.3	10036	79.5
	Black	1	0.5	1263	10.0
	Hispanic	5	2.6	1143	9.1
	Asian	5	2.6	90	0.7
	Other	1	0.5	87	0.7
	Not Reported	1	0.5	8	0.1
<b>Recipient Age</b>	<1	5	2.6	549	4.3
	1-10	1	0.5	431	3.4
	11-17	5	2.6	358	2.8
	18-49	67	34.4	4493	35.6
	50-64	112	57.4	6373	50.5
	65+	5	2.6	423	3.3
<b>Recipient Gender</b>	Female	30	15.4	2761	21.9
	Male	165	84.6	9866	78.1
<b>Recipient Race</b>	White	185	94.9	10504	83.2
	Black	2	1.0	1206	9.6
	Hispanic	4	2.1	570	4.5
	Asian	2	1.0	125	1.0
	Other	2	1.0	216	1.7
	Not Reported	0	0.0	6	0.0

		---- Program ----		--- National ---	
		Number	%	Number	%
<b>Previous Heart Transplant</b>	No	184	94.4	12231	96.9
	Yes	9	4.6	344	2.7
	Not Reported	2	1.0	52	0.4
<b>On Ventilator at Transplant</b>	No	182	93.3	11892	94.2
	Yes	8	4.1	663	5.3
	Not Reported	5	2.6	72	0.6
<b>On VAD at Transplant</b>	No	189	96.9	12187	96.5
	Yes	1	0.5	366	2.9
	Not Reported	5	2.6	74	0.6
<b>On IABP at Transplant</b>	No	186	95.4	11754	93.1
	Yes	4	2.1	801	6.3
	Not Reported	5	2.6	72	0.6
<b>Diagnosis at Transplant</b>	Coronary Artery Disease	109	55.9	5222	41.4
	Cardiomyopathy	61	31.3	5779	45.8
	Eisenmenger's Syndrome/Congenital	9	4.6	933	7.4
	Valvular Heart Disease	11	5.6	476	3.8
	Other Diagnosis	5	2.6	183	1.4
	Not Reported	0	0.0	34	0.3
<b>Medical Condition at Transplant</b>	Not Hospitalized	105	53.8	5606	44.4
	Hospitalized	6	3.1	986	7.8
	In ICU	84	43.1	6019	47.7
	Not Reported	0	0.0	16	0.1
<b>Cold Ischemia Time</b>	Up to 2 hrs	38	19.5	3458	27.4
	> 2 - 2.5 hrs	35	17.9	2271	18.0
	> 2.5 - 3 hrs	24	12.3	2408	19.1
	> 3 - 3.5 hrs	40	20.5	1949	15.4
	> 3.5 hrs	58	29.7	2453	19.4
	Not Reported	0	0.0	88	0.7
<b>Year of Transplant</b>	1988	24	12.3	1649	13.1
	1989	25	12.8	1677	13.3
	1990	42	21.5	2071	16.4
	1991	34	17.4	2098	16.6
	1992	34	17.4	2145	17.0
	1993	29	14.9	2266	17.9
	1994	7	3.6	721	5.7

Source: UNOS OPTN/Scientific Registry data.



## Heart Transplants: January 1, 1988 - April 30, 1994

Survival Report for Allegheny General Hospital - Pittsburgh PA  
Provider Number 390050 (PAAG)Graft Survival

	Era 1: 1/1/88-4/30/92			Era 2: 5/1/92-4/30/94			Overall: 1/1/88-4/30/94						
Time Point	No. of TX	Act. Rate (%)	Exp. Rate (%)	No. of TX	Act. Rate (%)	Exp. Rate (%)	No. of TX	No. <sup>1</sup> w/CFU	No. Failed	Act. Rate (%)	Exp. Rate (%)	Diff. (%)	p- <sup>2</sup> value
1 Month	53	90.6	90.9	21	95.2	94.1	74	74	6	91.9	91.8	0.1	0.97
1 Year	53	83.0	80.9	21	90.5	85.9	74	74	11	85.1	82.3	2.8	0.51
Cond. <sup>3</sup> 3 Years	44	90.9	90.6				44	44	4	90.9	90.6	0.3	0.94
3 Years <sup>3</sup>		75.5	73.2										

Patient Survival

	Era 1: 1/1/88-4/30/92			Era 2: 5/1/92-4/30/94			Overall: 1/1/88-4/30/94						
Time Point	No. of Pts. <sup>4</sup>	Act. Rate (%)	Exp. Rate (%)	No. of Pts. <sup>4</sup>	Act. Rate (%)	Exp. Rate (%)	No. of Pts. <sup>4</sup>	No. <sup>1,5</sup> w/CFU	No. <sup>5</sup> Died	Act. Rate (%)	Exp. Rate (%)	Diff. (%)	p- <sup>2</sup> value
1 Month	51	94.1	91.7	21	95.2	94.4	72	72.0	4.0	94.4	92.4	2.0	0.51
1 Year	51	86.3	82.2	21	90.5	86.4	72	72.0	9.0	87.5	83.4	4.1	0.34
Cond. <sup>3</sup> 3 Years	44	90.9	91.2				44	44.0	4.0	90.9	91.2	-0.3	0.95
3 Years <sup>3</sup>		78.4	74.9										

Notes: <sup>1</sup> No. with complete follow-up (CFU) is the total of the number of patients (grafts) whose status was known during the specified time interval.

<sup>2</sup> A p-value followed by an \* indicates that the difference is statistically significant at the 0.05 level.

<sup>3</sup> Conditional 3 year survival rates are the survival rates conditional on survival at 1 year. These are computed based on transplants between 1/1/88 and 4/30/92. Three year survival rates are computed by multiplying the 1 year and the conditional 3 year survival rates.

<sup>4</sup> The numbers of patients in Era 1 and Era 2 do not necessarily add up to the number of patients in the overall period, due to repeat transplants in different eras for some patients.

<sup>5</sup> No. w/CFU or No. Died may be fractional if patients received more than one transplant at the program.

Source: UNOS OPTN/Scientific Registry data.

**Heart Transplants: January 1, 1988 - April 30, 1994**  
**Donor and Recipient Characteristics: Program and National Frequencies**

**Allegheny General Hospital - Pittsburgh PA**  
**Provider Number 390050 (PAAG)**

		----- Program -----		--- National ---	
		Number	%	Number	%
<b>Total Transplants and Percentages</b>		<b>74</b>	<b>100.0</b>	<b>12627</b>	<b>100.0</b>
<b>Donor Age</b>	0-5	0	0.0	799	6.3
	6-10	0	0.0	274	2.2
	11-17	11	14.9	2029	16.1
	18-49	59	79.7	8923	70.7
	50-64	4	5.4	589	4.7
	65+	0	0.0	12	0.1
	Not Reported	0	0.0	1	0.0
<b>Donor Gender</b>	Female	32	43.2	3728	29.5
	Male	42	56.8	8899	70.5
<b>Donor Race</b>	White	67	90.5	10036	79.5
	Black	3	4.1	1263	10.0
	Hispanic	3	4.1	1143	9.1
	Asian	0	0.0	90	0.7
	Other	0	0.0	87	0.7
	Not Reported	1	1.4	8	0.1
<b>Recipient Age</b>	<1	0	0.0	549	4.3
	1-10	0	0.0	431	3.4
	11-17	0	0.0	358	2.8
	18-49	28	37.8	4493	35.6
	50-64	46	62.2	6373	50.5
	65+	0	0.0	423	3.3
<b>Recipient Gender</b>	Female	19	25.7	2761	21.9
	Male	55	74.3	9866	78.1
<b>Recipient Race</b>	White	70	94.6	10504	83.2
	Black	4	5.4	1206	9.6
	Hispanic	0	0.0	570	4.5
	Asian	0	0.0	125	1.0
	Other	0	0.0	216	1.7
	Not Reported	0	0.0	6	0.0

		---- Program ----		--- National ---	
		Number	%	Number	%
<b>Previous Heart Transplant</b>	No	72	97.3	12231	96.9
	Yes	2	2.7	344	2.7
	Not Reported	0	0.0	52	0.4
<b>On Ventilator at Transplant</b>	No	68	91.9	11892	94.2
	Yes	4	5.4	663	5.3
	Not Reported	2	2.7	72	0.6
<b>On VAD at Transplant</b>	No	72	97.3	12187	96.5
	Yes	0	0.0	366	2.9
	Not Reported	2	2.7	74	0.6
<b>On IABP at Transplant</b>	No	67	90.5	11754	93.1
	Yes	5	6.8	801	6.3
	Not Reported	2	2.7	72	0.6
<b>Diagnosis at Transplant</b>	Coronary Artery Disease	44	59.5	5222	41.4
	Cardiomyopathy	28	37.8	5779	45.8
	Eisenmenger's Syndrome/Congenital	0	0.0	933	7.4
	Valvular Heart Disease	2	2.7	476	3.8
	Other Diagnosis	0	0.0	183	1.4
	Not Reported	0	0.0	34	0.3
<b>Medical Condition at Transplant</b>	Not Hospitalized	38	51.4	5606	44.4
	Hospitalized	1	1.4	986	7.8
	In ICU	35	47.3	6019	47.7
	Not Reported	0	0.0	16	0.1
<b>Cold Ischemia Time</b>	Up to 2 hrs	22	29.7	3458	27.4
	> 2 - 2.5 hrs	9	12.2	2271	18.0
	> 2.5 - 3 hrs	19	25.7	2408	19.1
	> 3 - 3.5 hrs	11	14.9	1949	15.4
	> 3.5 hrs	11	14.9	2453	19.4
	Not Reported	2	2.7	88	0.7
<b>Year of Transplant</b>	1988	10	13.5	1649	13.1
	1989	7	9.5	1677	13.3
	1990	15	20.3	2071	16.4
	1991	19	25.7	2098	16.6
	1992	11	14.9	2145	17.0
	1993	11	14.9	2266	17.9
	1994	1	1.4	721	5.7

Source: UNOS OPTN/Scientific Registry data.

**Response From: Allegheny General Hospital  
320 East North Avenue, Pittsburgh, PA 15212  
Provider Number 390050 (PAAG)**

May 6, 1997

Allegheny General Hospital is a 728 bed tertiary care institution and serves as the Western Pennsylvania campus of The Allegheny University of the Health Sciences. The cardiac transplant program was initiated in December 1987. In the past nine years, Allegheny General Hospital has demonstrated its commitment to both advanced medical technology and personalized care to transplant patients. This commitment is reflected in the UNOS statistics for patient and graft survival, both of which are above the national expectations.

Of the transplants performed at Allegheny General Hospital during this time reported, over 47% were performed in patients who were critically ill requiring intensive care. In addition, 51% were performed in patients with a primary diagnosis of coronary artery disease and 62% were between the ages of 50-64. Despite these high risk patients, Allegheny General Hospital patient survival rates remain higher than the national expectations.

However, statistical analysis should never be used as a sole measure of transplant program's quality. Total patient care, with attention to both the emotional as well as the medical needs of the patient and family, is critical during all phases of evaluation, hospitalization and follow-up. The multidisciplinary team at Allegheny General Hospital addresses and coordinates all aspects of the patient's care.

George J. Magovem, Jr., MD  
Transplant Program Director



## Heart Transplants: January 1, 1988 - April 30, 1994

Survival Report for Children's Hospital - Pittsburgh PA  
Provider Number 393302 (PACH)Graft Survival

	Era 1: 1/1/88-4/30/92			Era 2: 5/1/92-4/30/94			Overall: 1/1/88-4/30/94						
Time Point	No. of TX	Act. Rate (%)	Exp. Rate (%)	No. of TX	Act. Rate (%)	Exp. Rate (%)	No. of TX	No. <sup>1</sup> w/CFU	No. Failed	Act. Rate (%)	Exp. Rate (%)	Diff. (%)	p- <sup>2</sup> value
1 Month	44	84.1	84.8	15	93.3	85.7	59	59	8	86.4	85.1	1.4	0.75
1 Year	44	68.2	74.6	15	83.2	72.9	59	52	16	71.4	74.3	-2.9	0.61
Cond. <sup>3</sup> 3 Years	30	93.1	90.4				30	28	2	93.1	90.4	2.7	0.61
3 Years <sup>3</sup>		63.5	67.5										

Patient Survival

	Era 1: 1/1/88-4/30/92			Era 2: 5/1/92-4/30/94			Overall: 1/1/88-4/30/94						
Time Point	No. of Pts. <sup>4</sup>	Act. Rate (%)	Exp. Rate (%)	No. of Pts. <sup>4</sup>	Act. Rate (%)	Exp. Rate (%)	No. of Pts. <sup>4</sup>	No. <sup>1,5</sup> w/CFU	No. <sup>5</sup> Died	Act. Rate (%)	Exp. Rate (%)	Diff. (%)	p- <sup>2</sup> value
1 Month	43	86.0	85.8	15	93.3	86.3	58	58.0	7.0	87.9	85.9	2.0	0.65
1 Year	43	69.8	76.2	15	83.2	74.0	58	51.0	15.0	72.7	75.7	-3.0	0.58
Cond. <sup>3</sup> 3 Years	30	93.1	90.8				30	28.0	2.0	93.1	90.8	2.3	0.66
3 Years <sup>3</sup>		65.0	69.2										

Notes: <sup>1</sup>. No. with complete follow-up (CFU) is the total of the number of patients (grafts) whose status was known during the specified time interval.

<sup>2</sup>. A p-value followed by an \* indicates that the difference is statistically significant at the 0.05 level.

<sup>3</sup>. Conditional 3 year survival rates are the survival rates conditional on survival at 1 year. These are computed based on transplants between 1/1/88 and 4/30/92. Three year survival rates are computed by multiplying the 1 year and the conditional 3 year survival rates.

<sup>4</sup>. The numbers of patients in Era 1 and Era 2 do not necessarily add up to the number of patients in the overall period, due to repeat transplants in different eras for some patients.

<sup>5</sup>. No. w/CFU or No. Died may be fractional if patients received more than one transplant at the program.

Source: UNOS OPTN/Scientific Registry data.

**Heart Transplants: January 1, 1988 - April 30, 1994**  
**Donor and Recipient Characteristics: Program and National Frequencies**

**Children's Hospital - Pittsburgh PA**  
**Provider Number 393302 (PACH)**

		----- Program -----		--- National ---	
		Number	%	Number	%
<b>Total Transplants and Percentages</b>		<b>59</b>	<b>100.0</b>	<b>12627</b>	<b>100.0</b>
<b>Donor Age</b>	0-5	38	64.4	799	6.3
	6-10	7	11.9	274	2.2
	11-17	10	16.9	2029	16.1
	18-49	4	6.8	8923	70.7
	50-64	0	0.0	589	4.7
	65+	0	0.0	12	0.1
	Not Reported	0	0.0	1	0.0
<b>Donor Gender</b>	Female	22	37.3	3728	29.5
	Male	37	62.7	8899	70.5
<b>Donor Race</b>	White	46	78.0	10036	79.5
	Black	10	16.9	1263	10.0
	Hispanic	2	3.4	1143	9.1
	Asian	0	0.0	90	0.7
	Other	1	1.7	87	0.7
	Not Reported	0	0.0	8	0.1
<b>Recipient Age</b>	<1	22	37.3	549	4.3
	1-10	20	33.9	431	3.4
	11-17	15	25.4	358	2.8
	18-49	2	3.4	4493	35.6
	50-64	0	0.0	6373	50.5
	65+	0	0.0	423	3.3
<b>Recipient Gender</b>	Female	28	47.5	2761	21.9
	Male	31	52.5	9866	78.1
<b>Recipient Race</b>	White	54	91.5	10504	83.2
	Black	2	3.4	1206	9.6
	Hispanic	1	1.7	570	4.5
	Asian	0	0.0	125	1.0
	Other	2	3.4	216	1.7
	Not Reported	0	0.0	6	0.0



		----- Program -----		--- National ---	
		Number	%	Number	%
<b>Previous Heart Transplant</b>	No	57	96.6	12231	96.9
	Yes	2	3.4	344	2.7
	Not Reported	0	0.0	52	0.4
<b>On Ventilator at Transplant</b>	No	50	84.7	11892	94.2
	Yes	9	15.3	663	5.3
	Not Reported	0	0.0	72	0.6
<b>On VAD at Transplant</b>	No	59	100.0	12187	96.5
	Yes	0	0.0	366	2.9
	Not Reported	0	0.0	74	0.6
<b>On IABP at Transplant</b>	No	57	96.6	11754	93.1
	Yes	2	3.4	801	6.3
	Not Reported	0	0.0	72	0.6
<b>Diagnosis at Transplant</b>	Coronary Artery Disease	0	0.0	5222	41.4
	Cardiomyopathy	20	33.9	5779	45.8
	Eisenmenger's Syndrome/Congenital	37	62.7	933	7.4
	Valvular Heart Disease	0	0.0	476	3.8
	Other Diagnosis	2	3.4	183	1.4
	Not Reported	0	0.0	34	0.3
<b>Medical Condition at Transplant</b>	Not Hospitalized	24	40.7	5606	44.4
	Hospitalized	7	11.9	986	7.8
	In ICU	28	47.5	6019	47.7
	Not Reported	0	0.0	16	0.1
<b>Cold Ischemia Time</b>	Up to 2 hrs	4	6.8	3458	27.4
	> 2 - 2.5 hrs	3	5.1	2271	18.0
	> 2.5 - 3 hrs	5	8.5	2408	19.1
	> 3 - 3.5 hrs	9	15.3	1949	15.4
	> 3.5 hrs	38	64.4	2453	19.4
	Not Reported	0	0.0	88	0.7
<b>Year of Transplant</b>	1988	7	11.9	1649	13.1
	1989	10	16.9	1677	13.3
	1990	11	18.6	2071	16.4
	1991	13	22.0	2098	16.6
	1992	5	8.5	2145	17.0
	1993	9	15.3	2266	17.9
	1994	4	6.8	721	5.7

Source: UNOS OPTN/Scientific Registry data.



## Heart Transplants: January 1, 1988 - April 30, 1994

Survival Report for Children's Hospital - Philadelphia PA  
Provider Number 393303 (PACP)Graft Survival

	Era 1: 1/1/88-4/30/92			Era 2: 5/1/92-4/30/94			Overall: 1/1/88-4/30/94						
Time Point	No. of TX	Act. Rate (%)	Exp. Rate (%)	No. of TX	Act. Rate (%)	Exp. Rate (%)	No. of TX	No. <sup>1</sup> w/CFU	No. Failed	Act. Rate (%)	Exp. Rate (%)	Diff. (%)	p- <sup>2</sup> value
1 Month	17	58.8	83.9	5	60.0	81.3	22	22	9	59.1	83.3	-24.2	<0.01*
1 Year	17	58.8	71.7	5	55.5	64.8	22	21	9	58.1	70.2	-12.1	0.19
Cond. <sup>3</sup> 3 Years	10	90.0	90.0				10	10	1	90.0	90.0	0.0	1.00
3 Years <sup>3</sup>		52.9	64.5										

Patient Survival

	Era 1: 1/1/88-4/30/92			Era 2: 5/1/92-4/30/94			Overall: 1/1/88-4/30/94						
Time Point	No. of Pts. <sup>4</sup>	Act. Rate (%)	Exp. Rate (%)	No. of Pts. <sup>4</sup>	Act. Rate (%)	Exp. Rate (%)	No. of Pts. <sup>4</sup>	No. <sup>1,5</sup> w/CFU	No. <sup>5</sup> Died	Act. Rate (%)	Exp. Rate (%)	Diff. (%)	p- <sup>2</sup> value
1 Month	16	61.3	85.1	5	66.7	83.6	20	20.0	7.5	62.5	84.8	-22.3	<0.01*
1 Year	16	61.3	73.8	5	62.5	69.1	20	19.0	7.5	61.5	72.9	-11.3	0.24
Cond. <sup>3</sup> 3 Years	10	90.0	90.4				10	10.0	1.0	90.0	90.4	-0.4	0.96
3 Years <sup>3</sup>		55.2	66.8										

Notes: <sup>1</sup> No. with complete follow-up (CFU) is the total of the number of patients (grafts) whose status was known during the specified time interval.

<sup>2</sup> A p-value followed by an \* indicates that the difference is statistically significant at the 0.05 level.

<sup>3</sup> Conditional 3 year survival rates are the survival rates conditional on survival at 1 year. These are computed based on transplants between 1/1/88 and 4/30/92. Three year survival rates are computed by multiplying the 1 year and the conditional 3 year survival rates.

<sup>4</sup> The numbers of patients in Era 1 and Era 2 do not necessarily add up to the number of patients in the overall period, due to repeat transplants in different eras for some patients.

<sup>5</sup> No. w/CFU or No. Died may be fractional if patients received more than one transplant at the program.

Source: UNOS OPTN/Scientific Registry data.

**Heart Transplants: January 1, 1988 - April 30, 1994**  
**Donor and Recipient Characteristics: Program and National Frequencies**

**Children's Hospital - Philadelphia PA**  
**Provider Number 393303 (PACP)**

		----- Program -----		--- National ---	
		Number	%	Number	%
<b>Total Transplants and Percentages</b>		<b>22</b>	<b>100.0</b>	<b>12627</b>	<b>100.0</b>
<b>Donor Age</b>	0-5	16	72.7	799	6.3
	6-10	3	13.6	274	2.2
	11-17	1	4.5	2029	16.1
	18-49	2	9.1	8923	70.7
	50-64	0	0.0	589	4.7
	65+	0	0.0	12	0.1
	Not Reported	0	0.0	1	0.0
<b>Donor Gender</b>	Female	7	31.8	3728	29.5
	Male	15	68.2	8899	70.5
<b>Donor Race</b>	White	14	63.6	10036	79.5
	Black	6	27.3	1263	10.0
	Hispanic	1	4.5	1143	9.1
	Asian	1	4.5	90	0.7
	Other	0	0.0	87	0.7
	Not Reported	0	0.0	8	0.1
<b>Recipient Age</b>	<1	9	40.9	549	4.3
	1-10	10	45.5	431	3.4
	11-17	1	4.5	358	2.8
	18-49	2	9.1	4493	35.6
	50-64	0	0.0	6373	50.5
	65+	0	0.0	423	3.3
<b>Recipient Gender</b>	Female	11	50.0	2761	21.9
	Male	11	50.0	9866	78.1
<b>Recipient Race</b>	White	20	90.9	10504	83.2
	Black	2	9.1	1206	9.6
	Hispanic	0	0.0	570	4.5
	Asian	0	0.0	125	1.0
	Other	0	0.0	216	1.7
	Not Reported	0	0.0	6	0.0

		----- Program -----		--- National ---	
		Number	%	Number	%
Previous Heart Transplant	No	20	90.9	12231	96.9
	Yes	2	9.1	344	2.7
	Not Reported	0	0.0	52	0.4
On Ventilator at Transplant	No	14	63.6	11892	94.2
	Yes	8	36.4	663	5.3
	Not Reported	0	0.0	72	0.6
On VAD at Transplant	No	22	100.0	12187	96.5
	Yes	0	0.0	366	2.9
	Not Reported	0	0.0	74	0.6
On IABP at Transplant	No	21	95.5	11754	93.1
	Yes	1	4.5	801	6.3
	Not Reported	0	0.0	72	0.6
Diagnosis at Transplant	Coronary Artery Disease	0	0.0	5222	41.4
	Cardiomyopathy	6	27.3	5779	45.8
	Eisenmenger's Syndrome/Congenital	15	68.2	933	7.4
	Valvular Heart Disease	0	0.0	476	3.8
	Other Diagnosis	1	4.5	183	1.4
	Not Reported	0	0.0	34	0.3
Medical Condition at Transplant	Not Hospitalized	4	18.2	5606	44.4
	Hospitalized	1	4.5	986	7.8
	In ICU	17	77.3	6019	47.7
	Not Reported	0	0.0	16	0.1
Cold Ischemia Time	Up to 2 hrs	11	50.0	3458	27.4
	> 2 - 2.5 hrs	2	9.1	2271	18.0
	> 2.5 - 3 hrs	5	22.7	2408	19.1
	> 3 - 3.5 hrs	2	9.1	1949	15.4
	> 3.5 hrs	2	9.1	2453	19.4
	Not Reported	0	0.0	88	0.7
Year of Transplant	1988	0	0.0	1649	13.1
	1989	0	0.0	1677	13.3
	1990	7	31.8	2071	16.4
	1991	10	45.5	2098	16.6
	1992	2	9.1	2145	17.0
	1993	2	9.1	2266	17.9
	1994	1	4.5	721	5.7

Source: UNOS OPTN/Scientific Registry data.

**Response From: Children's Hospital of Philadelphia  
34th Street and Civic Center Boulevard, Philadelphia, PA 19104  
Provider Number 393303 (PACP)**

April 28, 1997

We are pleased to have the opportunity to comment on the graft and patient survival statistics for the heart transplant program at the Children's Hospital of Philadelphia. The era covered in this report (1988-1994) reflects a program which was different in many ways from that which currently exists at CHOP. In late 1994, a new Program Director for Heart, Lung and Heart-Lung Transplantation, Dr. Thomas L. Spray, was recruited, and a new Medical Director for Thoracic Organ Transplantation, Dr. Nancy Bridges, was recruited in early 1995. Since that time, the program has expanded to include patients requiring lung and heart/lung transplantation, and our numbers have grown significantly. There have been many changes in the characteristics of the transplant population and their management. We expect therefore that this center-specific report may look somewhat different in years to come; however, our commitment to very young patients, and our willingness to consider patients with multiple "high-risk" characteristics remains unchanged, giving our program a rather unique patient profile.

A total of 17 transplants, or an average of about 3 transplants per year, were performed during the period covered by this report. The characteristics of the patient population are significantly different from those of the national reference population in many respects: almost 87% of our recipients were < 10 years of age at the time of transplant, and a little over 40% < than 1 year of age; nationwide, less than 8% of transplant recipients are under the age of 10 years. A relatively large proportion of our patients - 9.1 % had prior transplants (as compared with 2.7% nationally), and most important, this was a very ill population, with 36.4% requiring ventilator support (compared with 5.2% nationally) and 77.3% requiring ICU care at the time of transplant (as compared with 47.7% nationally). Despite these high-risk characteristics, the early survival in the more recent era (1992-94) was not significantly different from national expectations, and conditional three-year survival was excellent at 90%.

Between May of 1994 and February, 1997, we have performed 23 heart transplants in 21 patients at CHOP; 81% were  $\leq$  10 years old, and 38% were < 1 year old. Our patients continue to be characterized by severe level of illness: 14% had a prior heart transplant, and at the time of transplantation, 81 % required ICU care, 48% were mechanically ventilated, and 19% were on ECMO. Nevertheless, actual 1 month and 1 year survival (90% and 71 %, respectively, among those with at least one year of follow-up) continue to be similar to that achieved nationally with an older, less ill population of recipients.

Despite the changes in health care which have occurred in the last few years, we believe that it is crucial that thoracic organ transplantation continue to be available to children who present unusual management challenges. These exceptional patients are best served at centers (like our own) which have the professional expertise and experience and the institutional resources necessary to understand their problems and meet their needs.

Thomas L. Spray,  
Director, Thoracic Organ Transplantation



## Heart Transplants: January 1, 1988 - April 30, 1994

Survival Report for Milton S. Hershey Medical Center - Hershey PA  
Provider Number 390256 (PAHE)Graft Survival

	Era 1: 1/1/88-4/30/92			Era 2: 5/1/92-4/30/94			Overall: 1/1/88-4/30/94						
Time Point	No. of TX	Act. Rate (%)	Exp. Rate (%)	No. of TX	Act. Rate (%)	Exp. Rate (%)	No. of TX	No. <sup>1</sup> w/CFU	No. Failed	Act. Rate (%)	Exp. Rate (%)	Diff. (%)	p- <sup>2</sup> value
1 Month	57	87.7	92.3	31	96.8	92.1	88	88	8	90.9	92.2	-1.3	0.64
1 Year	57	77.2	83.4	31	83.9	83.7	88	88	18	79.5	83.5	-4.0	0.31
Cond. <sup>3</sup> 3 Years	44	93.2	91.2				44	43	3	93.2	91.2	2.0	0.64
3 Years <sup>3</sup>		71.9	76.1										

Patient Survival

	Era 1: 1/1/88-4/30/92			Era 2: 5/1/92-4/30/94			Overall: 1/1/88-4/30/94						
Time Point	No. of Pts. <sup>4</sup>	Act. Rate (%)	Exp. Rate (%)	No. of Pts. <sup>4</sup>	Act. Rate (%)	Exp. Rate (%)	No. of Pts. <sup>4</sup>	No. <sup>1,5</sup> w/CFU	No. <sup>5</sup> Died	Act. Rate (%)	Exp. Rate (%)	Diff. (%)	p- <sup>2</sup> value
1 Month	56	89.2	92.8	31	96.7	92.8	86	86.0	7.0	91.9	92.8	-1.0	0.73
1 Year	56	78.4	84.3	31	83.6	84.6	86	86.0	17.0	80.2	84.4	-4.1	0.28
Cond. <sup>3</sup> 3 Years	44	93.2	91.7				44	43.0	3.0	93.2	91.7	1.5	0.72
3 Years <sup>3</sup>		73.0	77.3										

Notes: <sup>1</sup> No. with complete follow-up (CFU) is the total of the number of patients (grafts) whose status was known during the specified time interval.

<sup>2</sup> A p-value followed by an \* indicates that the difference is statistically significant at the 0.05 level.

<sup>3</sup> Conditional 3 year survival rates are the survival rates conditional on survival at 1 year. These are computed based on transplants between 1/1/88 and 4/30/92. Three year survival rates are computed by multiplying the 1 year and the conditional 3 year survival rates.

<sup>4</sup> The numbers of patients in Era 1 and Era 2 do not necessarily add up to the number of patients in the overall period, due to repeat transplants in different eras for some patients.

<sup>5</sup> No. w/CFU or No. Died may be fractional if patients received more than one transplant at the program.

Source: UNOS OPTN/Scientific Registry data.



**Heart Transplants: January 1, 1988 - April 30, 1994**  
**Donor and Recipient Characteristics: Program and National Frequencies**

**Milton S. Hershey Medical Center - Hershey PA**  
**Provider Number 390256 (PAHE)**

		----- Program -----		--- National ---	
		Number	%	Number	%
<b>Total Transplants and Percentages</b>		<b>88</b>	<b>100.0</b>	<b>12627</b>	<b>100.0</b>
<b>Donor Age</b>	0-5	0	0.0	799	6.3
	6-10	0	0.0	274	2.2
	11-17	15	17.0	2029	16.1
	18-49	71	80.7	8923	70.7
	50-64	2	2.3	589	4.7
	65+	0	0.0	12	0.1
	Not Reported	0	0.0	1	0.0
<b>Donor Gender</b>	Female	15	17.0	3728	29.5
	Male	73	83.0	8899	70.5
<b>Donor Race</b>	White	76	86.4	10036	79.5
	Black	11	12.5	1263	10.0
	Hispanic	0	0.0	1143	9.1
	Asian	1	1.1	90	0.7
	Other	0	0.0	87	0.7
	Not Reported	0	0.0	8	0.1
<b>Recipient Age</b>	<1	0	0.0	549	4.3
	1-10	0	0.0	431	3.4
	11-17	2	2.3	358	2.8
	18-49	40	45.5	4493	35.6
	50-64	46	52.3	6373	50.5
	65+	0	0.0	423	3.3
<b>Recipient Gender</b>	Female	13	14.8	2761	21.9
	Male	75	85.2	9866	78.1
<b>Recipient Race</b>	White	85	96.6	10504	83.2
	Black	0	0.0	1206	9.6
	Hispanic	3	3.4	570	4.5
	Asian	0	0.0	125	1.0
	Other	0	0.0	216	1.7
	Not Reported	0	0.0	6	0.0

		----- Program -----		--- National ---	
		Number	%	Number	%
<b>Previous Heart Transplant</b>	No	86	97.7	12231	96.9
	Yes	2	2.3	344	2.7
	Not Reported	0	0.0	52	0.4
<b>On Ventilator at Transplant</b>	No	88	100.0	11892	94.2
	Yes	0	0.0	663	5.3
	Not Reported	0	0.0	72	0.6
<b>On VAD at Transplant</b>	No	76	86.4	12187	96.5
	Yes	12	13.6	366	2.9
	Not Reported	0	0.0	74	0.6
<b>On IABP at Transplant</b>	No	84	95.5	11754	93.1
	Yes	4	4.5	801	6.3
	Not Reported	0	0.0	72	0.6
<b>Diagnosis at Transplant</b>	Coronary Artery Disease	44	50.0	5222	41.4
	Cardiomyopathy	35	39.8	5779	45.8
	Eisenmenger's Syndrome/Congenital	4	4.5	933	7.4
	Valvular Heart Disease	4	4.5	476	3.8
	Other Diagnosis	1	1.1	183	1.4
	Not Reported	0	0.0	34	0.3
<b>Medical Condition at Transplant</b>	Not Hospitalized	38	43.2	5606	44.4
	Hospitalized	1	1.1	986	7.8
	In ICU	49	55.7	6019	47.7
	Not Reported	0	0.0	16	0.1
<b>Cold Ischemia Time</b>	Up to 2 hrs	5	5.7	3458	27.4
	> 2 - 2.5 hrs	15	17.0	2271	18.0
	> 2.5 - 3 hrs	22	25.0	2408	19.1
	> 3 - 3.5 hrs	24	27.3	1949	15.4
	> 3.5 hrs	22	25.0	2453	19.4
	Not Reported	0	0.0	88	0.7
<b>Year of Transplant</b>	1988	12	13.6	1649	13.1
	1989	7	8.0	1677	13.3
	1990	19	21.6	2071	16.4
	1991	15	17.0	2098	16.6
	1992	14	15.9	2145	17.0
	1993	13	14.8	2266	17.9
	1994	8	9.1	721	5.7

Source: UNOS OPTN/Scientific Registry data.



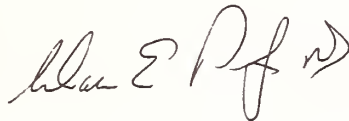
**Response From: Milton S. Hershey Medical Center  
500 University Drive, Hershey, PA 17033  
Provider Number 390256 (PAHE)**

May 2, 1997

The Milton S. Hershey Medical Center, The Pennsylvania State University, University Hospital Heart Transplant Program was begun in February of 1984. From January 1, 1988 to April 30, 1994 we have performed 88 orthotopic heart transplants with a conditional three year survival rate overall of 93.2%

The survival report is an accurate reflection of the commitment to care and standards of excellence at our institution. Even when the statistics on graft and patient survival are adjusted for the more complex cases performed, our results are well within the national expectations, as indicated by the UNOS statistics. Of the transplants performed in the reporting period, preoperatively, 19% of the recipients were on circulatory support pretransplant versus 9% as the national average. Furthermore, nearly 56% of our patient were hospitalized in the intensive care unit, pretransplant versus 48% nationally. Both of these population characteristics are considered high risk, adding to the complexity of our patient profile. Our program has met stringent membership criteria in order to become a member of UNOS. We believe our excellent statistics are a reflection of our multidisciplinary approach, with careful pretransplant, transplant, and post-transplant follow-up, as well as, close cooperation among medical, surgical, and other specialists. We are very proud of our program and will endeavor to continue providing the finest patient care available found anywhere in the United States.

Walter E. Pae, Jr., M.D.  
Professor of Surgery

A handwritten signature in cursive script, appearing to read "Walter E. Pae, Jr.", with a stylized flourish at the end.

## Heart Transplants: January 1, 1988 - April 30, 1994

Survival Report for Allegheny University Hospital - Center City - Philadelphia PA  
Provider Number 390051 (PAHM)Graft Survival

	Era 1: 1/1/88-4/30/92			Era 2: 5/1/92-4/30/94			Overall: 1/1/88-4/30/94						
Time Point	No. of TX	Act. Rate (%)	Exp. Rate (%)	No. of TX	Act. Rate (%)	Exp. Rate (%)	No. of TX	No. <sup>1</sup> w/CFU	No. Failed	Act. Rate (%)	Exp. Rate (%)	Diff. (%)	p- <sup>2</sup> value
1 Month	8	100.0	91.9	53	90.6	90.7	61	61	5	91.8	90.8	1.0	0.79
1 Year	8	100.0	81.8	53	73.6	79.4	61	61	14	77.0	79.7	-2.7	0.60
Cond. <sup>3</sup> 3 Years	8	100.0	89.4				8	8	0	100.0	89.4	10.6	0.33
3 Years <sup>3</sup>		100.0	73.1										

Patient Survival

	Era 1: 1/1/88-4/30/92			Era 2: 5/1/92-4/30/94			Overall: 1/1/88-4/30/94						
Time Point	No. of Pts. <sup>4</sup>	Act. Rate (%)	Exp. Rate (%)	No. of Pts. <sup>4</sup>	Act. Rate (%)	Exp. Rate (%)	No. of Pts. <sup>4</sup>	No. <sup>1,5</sup> w/CFU	No. <sup>5</sup> Died	Act. Rate (%)	Exp. Rate (%)	Diff. (%)	p- <sup>2</sup> value
1 Month	8	100.0	92.2	53	90.6	91.1	61	61.0	5.0	91.8	91.2	0.6	0.87
1 Year	8	100.0	82.3	53	73.6	79.9	61	61.0	14.0	77.0	80.2	-3.2	0.52
Cond. <sup>3</sup> 3 Years	8	100.0	89.9				8	8.0	0.0	100.0	89.9	10.1	0.34
3 Years <sup>3</sup>		100.0	74.1										

Notes: <sup>1</sup> No. with complete follow-up (CFU) is the total of the number of patients (grafts) whose status was known during the specified time interval.

<sup>2</sup> A p-value followed by an \* indicates that the difference is statistically significant at the 0.05 level.

<sup>3</sup> Conditional 3 year survival rates are the survival rates conditional on survival at 1 year. These are computed based on transplants between 1/1/88 and 4/30/92. Three year survival rates are computed by multiplying the 1 year and the conditional 3 year survival rates.

<sup>4</sup> The numbers of patients in Era 1 and Era 2 do not necessarily add up to the number of patients in the overall period, due to repeat transplants in different eras for some patients.

<sup>5</sup> No. w/CFU or No. Died may be fractional if patients received more than one transplant at the program.

Source: UNOS OPTN/Scientific Registry data.

**Heart Transplants: January 1, 1988 - April 30, 1994**  
**Donor and Recipient Characteristics: Program and National Frequencies**

**Allegheny University Hospital - Center City - Philadelphia PA**  
**Provider Number 390051 (PAHM)**

		----- Program -----		--- National ---	
		Number	%	Number	%
<b>Total Transplants and Percentages</b>		<b>61</b>	<b>100.0</b>	<b>12627</b>	<b>100.0</b>
<b>Donor Age</b>	0-5	0	0.0	799	6.3
	6-10	2	3.3	274	2.2
	11-17	14	23.0	2029	16.1
	18-49	37	60.7	8923	70.7
	50-64	7	11.5	589	4.7
	65+	1	1.6	12	0.1
	Not Reported	0	0.0	1	0.0
<b>Donor Gender</b>	Female	25	41.0	3728	29.5
	Male	36	59.0	8899	70.5
<b>Donor Race</b>	White	48	78.7	10036	79.5
	Black	9	14.8	1263	10.0
	Hispanic	3	4.9	1143	9.1
	Asian	1	1.6	90	0.7
	Other	0	0.0	87	0.7
	Not Reported	0	0.0	8	0.1
<b>Recipient Age</b>	<1	0	0.0	549	4.3
	1-10	0	0.0	431	3.4
	11-17	0	0.0	358	2.8
	18-49	22	36.1	4493	35.6
	50-64	36	59.0	6373	50.5
	65+	3	4.9	423	3.3
<b>Recipient Gender</b>	Female	10	16.4	2761	21.9
	Male	51	83.6	9866	78.1
<b>Recipient Race</b>	White	47	77.0	10504	83.2
	Black	12	19.7	1206	9.6
	Hispanic	1	1.6	570	4.5
	Asian	1	1.6	125	1.0
	Other	0	0.0	216	1.7
	Not Reported	0	0.0	6	0.0

		----- Program -----		--- National ---	
		Number	%	Number	%
<b>Previous Heart Transplant</b>	No	58	95.1	12231	96.9
	Yes	3	4.9	344	2.7
	Not Reported	0	0.0	52	0.4
<b>On Ventilator at Transplant</b>	No	59	96.7	11892	94.2
	Yes	2	3.3	663	5.3
	Not Reported	0	0.0	72	0.6
<b>On VAD at Transplant</b>	No	61	100.0	12187	96.5
	Yes	0	0.0	366	2.9
	Not Reported	0	0.0	74	0.6
<b>On IABP at Transplant</b>	No	60	98.4	11754	93.1
	Yes	1	1.6	801	6.3
	Not Reported	0	0.0	72	0.6
<b>Diagnosis at Transplant</b>	Coronary Artery Disease	28	45.9	5222	41.4
	Cardiomyopathy	28	45.9	5779	45.8
	Eisenmenger's Syndrome/Congenital	0	0.0	933	7.4
	Valvular Heart Disease	3	4.9	476	3.8
	Other Diagnosis	0	0.0	183	1.4
	Not Reported	2	3.3	34	0.3
<b>Medical Condition at Transplant</b>	Not Hospitalized	4	6.6	5606	44.4
	Hospitalized	6	9.8	986	7.8
	In ICU	51	83.6	6019	47.7
	Not Reported	0	0.0	16	0.1
<b>Cold Ischemia Time</b>	Up to 2 hrs	15	24.6	3458	27.4
	> 2 - 2.5 hrs	14	23.0	2271	18.0
	> 2.5 - 3 hrs	13	21.3	2408	19.1
	> 3 - 3.5 hrs	8	13.1	1949	15.4
	> 3.5 hrs	11	18.0	2453	19.4
	Not Reported	0	0.0	88	0.7
<b>Year of Transplant</b>	1988	0	0.0	1649	13.1
	1989	0	0.0	1677	13.3
	1990	2	3.3	2071	16.4
	1991	6	9.8	2098	16.6
	1992	19	31.1	2145	17.0
	1993	23	37.7	2266	17.9
	1994	11	18.0	721	5.7

Source: UNOS OPTN/Scientific Registry data.

## Heart Transplants: January 1, 1988 - April 30, 1994

Survival Report for University of Pittsburgh Medical Center - Pittsburgh PA  
Provider Number 390164 (PAPT)Graft Survival

	Era 1: 1/1/88-4/30/92			Era 2: 5/1/92-4/30/94			Overall: 1/1/88-4/30/94						
Time Point	No. of TX	Act. Rate (%)	Exp. Rate (%)	No. of TX	Act. Rate (%)	Exp. Rate (%)	No. of TX	No. <sup>1</sup> w/CFU	No. Failed	Act. Rate (%)	Exp. Rate (%)	Diff. (%)	p- <sup>2</sup> value
1 Month	170	93.5	91.2	78	93.5	90.9	248	244	16	93.5	91.1	2.4	0.17
1 Year	170	85.8	81.4	78	87.9	81.8	248	241	33	86.4	81.5	4.9	0.04*
Cond. <sup>3</sup> 3 Years	144	90.8	90.7				144	137	13	90.8	90.7	0.1	0.97
3 Years <sup>3</sup>		77.9	73.9										

Patient Survival

	Era 1: 1/1/88-4/30/92			Era 2: 5/1/92-4/30/94			Overall: 1/1/88-4/30/94						
Time Point	No. of Pts. <sup>4</sup>	Act. Rate (%)	Exp. Rate (%)	No. of Pts. <sup>4</sup>	Act. Rate (%)	Exp. Rate (%)	No. of Pts. <sup>4</sup>	No. <sup>1,5</sup> w/CFU	No. <sup>5</sup> Died	Act. Rate (%)	Exp. Rate (%)	Diff. (%)	p- <sup>2</sup> value
1 Month	167	94.6	91.9	78	93.5	91.6	245	241.0	14.0	94.2	91.8	2.4	0.15
1 Year	167	87.0	82.5	78	87.9	82.5	245	238.0	30.5	87.3	82.5	4.8	0.04*
Cond. <sup>3</sup> 3 Years	144	91.5	91.2				144	137.0	12.0	91.5	91.2	0.3	0.89
3 Years <sup>3</sup>		79.6	75.2										

- Notes: <sup>1</sup> No. with complete follow-up (CFU) is the total of the number of patients (grafts) whose status was known during the specified time interval.
- <sup>2</sup> A p-value followed by an \* indicates that the difference is statistically significant at the 0.05 level.
- <sup>3</sup> Conditional 3 year survival rates are the survival rates conditional on survival at 1 year. These are computed based on transplants between 1/1/88 and 4/30/92. Three year survival rates are computed by multiplying the 1 year and the conditional 3 year survival rates.
- <sup>4</sup> The numbers of patients in Era 1 and Era 2 do not necessarily add up to the number of patients in the overall period, due to repeat transplants in different eras for some patients.
- <sup>5</sup> No. w/CFU or No. Died may be fractional if patients received more than one transplant at the program.

Source: UNOS OPTN/Scientific Registry data.

**Heart Transplants: January 1, 1988 - April 30, 1994**  
**Donor and Recipient Characteristics: Program and National Frequencies**

**University of Pittsburgh Medical Center - Pittsburgh PA**  
**Provider Number 390164 (PAPT)**

		----- Program -----		--- National ---	
		Number	%	Number	%
<b>Total Transplants and Percentages</b>		<b>248</b>	<b>100.0</b>	<b>12627</b>	<b>100.0</b>
<b>Donor Age</b>	0-5	0	0.0	799	6.3
	6-10	0	0.0	274	2.2
	11-17	32	12.9	2029	16.1
	18-49	202	81.5	8923	70.7
	50-64	14	5.6	589	4.7
	65+	0	0.0	12	0.1
	Not Reported	0	0.0	1	0.0
<b>Donor Gender</b>	Female	47	19.0	3728	29.5
	Male	201	81.0	8899	70.5
<b>Donor Race</b>	White	220	88.7	10036	79.5
	Black	21	8.5	1263	10.0
	Hispanic	7	2.8	1143	9.1
	Asian	0	0.0	90	0.7
	Other	0	0.0	87	0.7
	Not Reported	0	0.0	8	0.1
<b>Recipient Age</b>	<1	0	0.0	549	4.3
	1-10	0	0.0	431	3.4
	11-17	2	0.8	358	2.8
	18-49	105	42.3	4493	35.6
	50-64	138	55.6	6373	50.5
	65+	3	1.2	423	3.3
<b>Recipient Gender</b>	Female	43	17.3	2761	21.9
	Male	205	82.7	9866	78.1
<b>Recipient Race</b>	White	233	94.0	10504	83.2
	Black	12	4.8	1206	9.6
	Hispanic	1	0.4	570	4.5
	Asian	0	0.0	125	1.0
	Other	1	0.4	216	1.7
	Not Reported	1	0.4	6	0.0

		----- Program -----		--- National ---	
		Number	%	Number	%
<b>Previous Heart Transplant</b>	No	237	95.6	12231	96.9
	Yes	10	4.0	344	2.7
	Not Reported	1	0.4	52	0.4
<b>On Ventilator at Transplant</b>	No	244	98.4	11892	94.2
	Yes	2	0.8	663	5.3
	Not Reported	2	0.8	72	0.6
<b>On VAD at Transplant</b>	No	209	84.3	12187	96.5
	Yes	38	15.3	366	2.9
	Not Reported	1	0.4	74	0.6
<b>On IABP at Transplant</b>	No	227	91.5	11754	93.1
	Yes	20	8.1	801	6.3
	Not Reported	1	0.4	72	0.6
<b>Diagnosis at Transplant</b>	Coronary Artery Disease	110	44.4	5222	41.4
	Cardiomyopathy	122	49.2	5779	45.8
	Eisenmenger's Syndrome/Congenital	2	0.8	933	7.4
	Valvular Heart Disease	10	4.0	476	3.8
	Other Diagnosis	4	1.6	183	1.4
	Not Reported	0	0.0	34	0.3
<b>Medical Condition at Transplant</b>	Not Hospitalized	62	25.0	5606	44.4
	Hospitalized	13	5.2	986	7.8
	In ICU	173	69.8	6019	47.7
	Not Reported	0	0.0	16	0.1
<b>Cold Ischemia Time</b>	Up to 2 hrs	31	12.5	3458	27.4
	> 2 - 2.5 hrs	23	9.3	2271	18.0
	> 2.5 - 3 hrs	36	14.5	2408	19.1
	> 3 - 3.5 hrs	50	20.2	1949	15.4
	> 3.5 hrs	108	43.5	2453	19.4
	Not Reported	0	0.0	88	0.7
<b>Year of Transplant</b>	1988	52	21.0	1649	13.1
	1989	39	15.7	1677	13.3
	1990	35	14.1	2071	16.4
	1991	38	15.3	2098	16.6
	1992	33	13.3	2145	17.0
	1993	38	15.3	2266	17.9
	1994	13	5.2	721	5.7

Source: UNOS OPTN/Scientific Registry data.



## Heart Transplants: January 1, 1988 - April 30, 1994

Survival Report for St Christopher's Hospital for Children - Philadelphia PA  
Provider Number 393301 (PASC)Graft Survival

	Era 1: 1/1/88-4/30/92			Era 2: 5/1/92-4/30/94			Overall: 1/1/88-4/30/94						
Time Point	No. of TX	Act. Rate (%)	Exp. Rate (%)	No. of TX	Act. Rate (%)	Exp. Rate (%)	No. of TX	No. <sup>1</sup> w/CFU	No. Failed	Act. Rate (%)	Exp. Rate (%)	Diff. (%)	p- <sup>2</sup> value
1 Month	15	46.7	87.2	21	66.7	84.5	36	36	15	58.3	85.6	-27.3	<0.01*
1 Year	15	33.3	74.4	21	52.4	71.5	36	36	20	44.4	72.7	-28.3	<0.01*
Cond. <sup>3</sup> 3 Years	5	100.0	89.0				5	5	0	100.0	89.0	11.0	0.65
3 Years <sup>3</sup>		33.3	66.3										

Patient Survival

	Era 1: 1/1/88-4/30/92			Era 2: 5/1/92-4/30/94			Overall: 1/1/88-4/30/94						
Time Point	No. of Pts. <sup>4</sup>	Act. Rate (%)	Exp. Rate (%)	No. of Pts. <sup>4</sup>	Act. Rate (%)	Exp. Rate (%)	No. of Pts. <sup>4</sup>	No. <sup>1,5</sup> w/CFU	No. <sup>5</sup> Died	Act. Rate (%)	Exp. Rate (%)	Diff. (%)	p- <sup>2</sup> value
1 Month	15	46.7	87.3	20	67.5	85.3	35	35.0	14.5	58.6	86.1	-27.6	<0.01*
1 Year	15	33.3	75.5	20	55.0	73.1	35	35.0	19.0	45.7	74.1	-28.4	<0.01*
Cond. <sup>3</sup> 3 Years	5	100.0	89.3				5	5.0	0.0	100.0	89.3	10.7	0.66
3 Years <sup>3</sup>		33.3	67.5										

Notes: <sup>1</sup> No. with complete follow-up (CFU) is the total of the number of patients (grafts) whose status was known during the specified time interval.

<sup>2</sup> A p-value followed by an \* indicates that the difference is statistically significant at the 0.05 level.

<sup>3</sup> Conditional 3 year survival rates are the survival rates conditional on survival at 1 year. These are computed based on transplants between 1/1/88 and 4/30/92. Three year survival rates are computed by multiplying the 1 year and the conditional 3 year survival rates.

<sup>4</sup> The numbers of patients in Era 1 and Era 2 do not necessarily add up to the number of patients in the overall period, due to repeat transplants in different eras for some patients.

<sup>5</sup> No. w/CFU or No. Died may be fractional if patients received more than one transplant at the program.

Source: UNOS OPTN/Scientific Registry data.

**Heart Transplants: January 1, 1988 - April 30, 1994**  
**Donor and Recipient Characteristics: Program and National Frequencies**

**St Christopher's Hospital for Children - Philadelphia PA**  
**Provider Number 393301 (PASC)**

		----- Program -----		--- National ---	
		Number	%	Number	%
<b>Total Transplants and Percentages</b>		<b>36</b>	<b>100.0</b>	<b>12627</b>	<b>100.0</b>
<b>Donor Age</b>	0-5	23	63.9	799	6.3
	6-10	4	11.1	274	2.2
	11-17	6	16.7	2029	16.1
	18-49	3	8.3	8923	70.7
	50-64	0	0.0	589	4.7
	65+	0	0.0	12	0.1
	Not Reported	0	0.0	1	0.0
<b>Donor Gender</b>	Female	15	41.7	3728	29.5
	Male	21	58.3	8899	70.5
<b>Donor Race</b>	White	22	61.1	10036	79.5
	Black	11	30.6	1263	10.0
	Hispanic	2	5.6	1143	9.1
	Asian	0	0.0	90	0.7
	Other	1	2.8	87	0.7
	Not Reported	0	0.0	8	0.1
<b>Recipient Age</b>	<1	19	52.8	549	4.3
	1-10	11	30.6	431	3.4
	11-17	5	13.9	358	2.8
	18-49	1	2.8	4493	35.6
	50-64	0	0.0	6373	50.5
	65+	0	0.0	423	3.3
<b>Recipient Gender</b>	Female	20	55.6	2761	21.9
	Male	16	44.4	9866	78.1
<b>Recipient Race</b>	White	21	58.3	10504	83.2
	Black	10	27.8	1206	9.6
	Hispanic	5	13.9	570	4.5
	Asian	0	0.0	125	1.0
	Other	0	0.0	216	1.7
	Not Reported	0	0.0	6	0.0

		----- Program -----		--- National ---	
		Number	%	Number	%
<b>Previous Heart Transplant</b>	No	35	97.2	12231	96.9
	Yes	1	2.8	344	2.7
	Not Reported	0	0.0	52	0.4
<b>On Ventilator at Transplant</b>	No	29	80.6	11892	94.2
	Yes	7	19.4	663	5.3
	Not Reported	0	0.0	72	0.6
<b>On VAD at Transplant</b>	No	36	100.0	12187	96.5
	Yes	0	0.0	366	2.9
	Not Reported	0	0.0	74	0.6
<b>On IABP at Transplant</b>	No	36	100.0	11754	93.1
	Yes	0	0.0	801	6.3
	Not Reported	0	0.0	72	0.6
<b>Diagnosis at Transplant</b>	Coronary Artery Disease	0	0.0	5222	41.4
	Cardiomyopathy	14	38.9	5779	45.8
	Eisenmenger's Syndrome/Congenital	21	58.3	933	7.4
	Valvular Heart Disease	0	0.0	476	3.8
	Other Diagnosis	1	2.8	183	1.4
	Not Reported	0	0.0	34	0.3
<b>Medical Condition at Transplant</b>	Not Hospitalized	7	19.4	5606	44.4
	Hospitalized	1	2.8	986	7.8
	In ICU	28	77.8	6019	47.7
	Not Reported	0	0.0	16	0.1
<b>Cold Ischemia Time</b>	Up to 2 hrs	9	25.0	3458	27.4
	> 2 - 2.5 hrs	4	11.1	2271	18.0
	> 2.5 - 3 hrs	4	11.1	2408	19.1
	> 3 - 3.5 hrs	5	13.9	1949	15.4
	> 3.5 hrs	14	38.9	2453	19.4
	Not Reported	0	0.0	88	0.7
<b>Year of Transplant</b>	1988	2	5.6	1649	13.1
	1989	4	11.1	1677	13.3
	1990	4	11.1	2071	16.4
	1991	3	8.3	2098	16.6
	1992	7	19.4	2145	17.0
	1993	12	33.3	2266	17.9
	1994	4	11.1	721	5.7

Source: UNOS OPTN/Scientific Registry data.

**Response From: St. Christopher's Hospital for Children**  
**Erie Avenue at Front Street, Philadelphia, PA 19134**  
**Provider Number 393301 (PASC)**

June 2, 1997

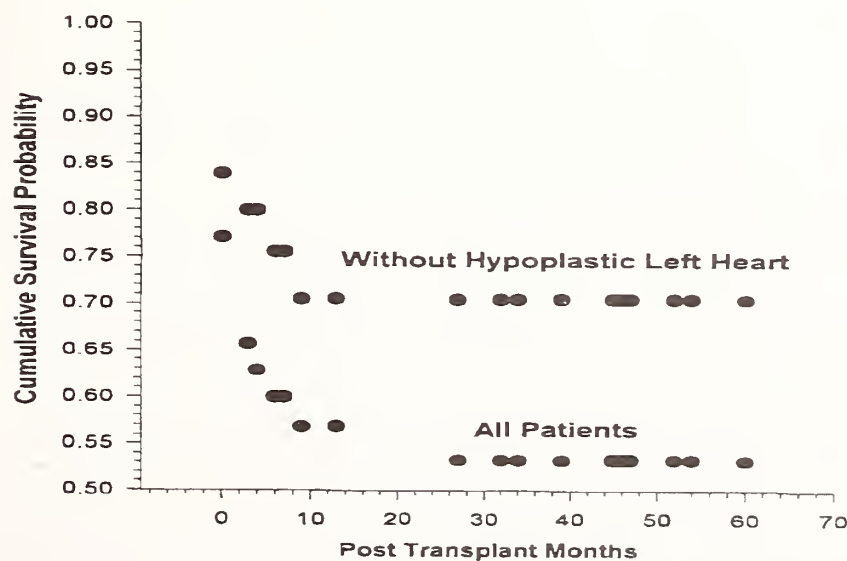
We concur with the findings that Era 1 and Era 2 actual survival rates are significantly below the expected rates for both 1 month and 1 year. However, we make the following observations:

- 1) There is significant ( $p < .001$ ) and dramatic improvement in 1 month and 1 year survival from Era 1 to Era 2. This may be related to increased general surgical experience acquired by our surgical team who arrived in our institution in March, 1988.
- 2) In 1995 these data generated a review of our program by UNOS. The major finding was an exceptionally high perioperative mortality rate for infants with hypoplastic left heart syndrome. A recommendation was made and accepted to eliminate such patients from consideration until our surgical capabilities in this age group and experience with this congenital defect were judged adequate. Recalculation of Era 2 survival, excluding hypoplastic left heart syndrome, demonstrates a 71% patient survival at 1 year with an expected survival of 73%. Since acting on this recommendation in June, 1995, we have had 1 death at 9 months and 6 current survivors in 7 patients.
- 3) Expected survival curves (Kaplan-Meyer method) for 1/1/92 - 12/31/96, with and without hypoplastic left heart syndrome demonstrate similar findings.

Richard M. Donner, M.D.  
 Heart Transplant Program Director

*Richard Donner*

**Transplant Survival 1/1/92 - 12/31/96**  
**Kaplan - Meier Method**



## Heart Transplants: January 1, 1988 - April 30, 1994

Survival Report for Temple University Hospital - Philadelphia PA  
Provider Number 390027 (PATU)Graft Survival

	Era 1: 1/1/88-4/30/92			Era 2: 5/1/92-4/30/94			Overall: 1/1/88-4/30/94						
Time Point	No. of TX	Act. Rate (%)	Exp. Rate (%)	No. of TX	Act. Rate (%)	Exp. Rate (%)	No. of TX	No. <sup>1</sup> w/CFU	No. Failed	Act. Rate (%)	Exp. Rate (%)	Diff. (%)	p- <sup>2</sup> value
1 Month	146	89.0	93.0	127	89.8	89.8	273	273	29	89.4	91.5	-2.1	0.19
1 Year	146	78.1	83.3	127	75.5	79.5	273	272	63	76.9	81.5	-4.7	0.04*
Cond. <sup>3</sup> 3 Years	114	92.1	90.5				114	114	9	92.1	90.5	1.6	0.56
3 Years <sup>3</sup>		71.9	75.4										

Patient Survival

	Era 1: 1/1/88-4/30/92			Era 2: 5/1/92-4/30/94			Overall: 1/1/88-4/30/94						
Time Point	No. of Pts. <sup>4</sup>	Act. Rate (%)	Exp. Rate (%)	No. of Pts. <sup>4</sup>	Act. Rate (%)	Exp. Rate (%)	No. of Pts. <sup>4</sup>	No. <sup>1,5</sup> w/CFU	No. <sup>5</sup> Died	Act. Rate (%)	Exp. Rate (%)	Diff. (%)	p- <sup>2</sup> value
1 Month	143	88.8	93.4	125	91.2	90.5	268	268.0	27.0	89.9	92.0	-2.1	0.18
1 Year	143	78.3	84.1	125	76.7	80.4	268	267.0	60.0	77.6	82.3	-4.8	0.03*
Cond. <sup>3</sup> 3 Years	112	92.9	91.0				112	112.0	8.0	92.9	91.0	1.8	0.49
3 Years <sup>3</sup>		72.7	76.5										

Notes: <sup>1</sup> No. with complete follow-up (CFU) is the total of the number of patients (grafts) whose status was known during the specified time interval.

<sup>2</sup> A p-value followed by an \* indicates that the difference is statistically significant at the 0.05 level.

<sup>3</sup> Conditional 3 year survival rates are the survival rates conditional on survival at 1 year. These are computed based on transplants between 1/1/88 and 4/30/92. Three year survival rates are computed by multiplying the 1 year and the conditional 3 year survival rates.

<sup>4</sup> The numbers of patients in Era 1 and Era 2 do not necessarily add up to the number of patients in the overall period, due to repeat transplants in different eras for some patients.

<sup>5</sup> No. w/CFU or No. Died may be fractional if patients received more than one transplant at the program.

Source: UNOS OPTN/Scientific Registry data.

**Heart Transplants: January 1, 1988 - April 30, 1994**  
**Donor and Recipient Characteristics: Program and National Frequencies**

**Temple University Hospital - Philadelphia PA**  
**Provider Number 390027 (PATU)**

		----- Program -----		--- National ---	
		Number	%	Number	%
<b>Total Transplants and Percentages</b>		<b>273</b>	<b>100.0</b>	<b>12627</b>	<b>100.0</b>
<b>Donor Age</b>	0-5	4	1.5	799	6.3
	6-10	14	5.1	274	2.2
	11-17	40	14.7	2029	16.1
	18-49	191	70.0	8923	70.7
	50-64	23	8.4	589	4.7
	65+	1	0.4	12	0.1
	Not Reported	0	0.0	1	0.0
<b>Donor Gender</b>	Female	100	36.6	3728	29.5
	Male	173	63.4	8899	70.5
<b>Donor Race</b>	White	240	87.9	10036	79.5
	Black	22	8.1	1263	10.0
	Hispanic	8	2.9	1143	9.1
	Asian	1	0.4	90	0.7
	Other	2	0.7	87	0.7
	Not Reported	0	0.0	8	0.1
<b>Recipient Age</b>	<1	0	0.0	549	4.3
	1-10	0	0.0	431	3.4
	11-17	1	0.4	358	2.8
	18-49	112	41.0	4493	35.6
	50-64	151	55.3	6373	50.5
	65+	9	3.3	423	3.3
<b>Recipient Gender</b>	Female	50	18.3	2761	21.9
	Male	223	81.7	9866	78.1
<b>Recipient Race</b>	White	222	81.3	10504	83.2
	Black	40	14.7	1206	9.6
	Hispanic	7	2.6	570	4.5
	Asian	3	1.1	125	1.0
	Other	1	0.4	216	1.7
	Not Reported	0	0.0	6	0.0



		----- Program -----		--- National ---	
		Number	%	Number	%
<b>Previous Heart Transplant</b>	No	266	97.4	12231	96.9
	Yes	7	2.6	344	2.7
	Not Reported	0	0.0	52	0.4
<b>On Ventilator at Transplant</b>	No	260	95.2	11892	94.2
	Yes	13	4.8	663	5.3
	Not Reported	0	0.0	72	0.6
<b>On VAD at Transplant</b>	No	263	96.3	12187	96.5
	Yes	10	3.7	366	2.9
	Not Reported	0	0.0	74	0.6
<b>On IABP at Transplant</b>	No	250	91.6	11754	93.1
	Yes	23	8.4	801	6.3
	Not Reported	0	0.0	72	0.6
<b>Diagnosis at Transplant</b>	Coronary Artery Disease	30	11.0	5222	41.4
	Cardiomyopathy	225	82.4	5779	45.8
	Eisenmenger's Syndrome/Congenital	3	1.1	933	7.4
	Valvular Heart Disease	12	4.4	476	3.8
	Other Diagnosis	2	0.7	183	1.4
	Not Reported	1	0.4	34	0.3
<b>Medical Condition at Transplant</b>	Not Hospitalized	104	38.1	5606	44.4
	Hospitalized	17	6.2	986	7.8
	In ICU	152	55.7	6019	47.7
	Not Reported	0	0.0	16	0.1
<b>Cold Ischemia Time</b>	Up to 2 hrs	39	14.3	3458	27.4
	> 2 - 2.5 hrs	59	21.6	2271	18.0
	> 2.5 - 3 hrs	36	13.2	2408	19.1
	> 3 - 3.5 hrs	66	24.2	1949	15.4
	> 3.5 hrs	71	26.0	2453	19.4
	Not Reported	2	0.7	88	0.7
<b>Year of Transplant</b>	1988	30	11.0	1649	13.1
	1989	31	11.4	1677	13.3
	1990	47	17.2	2071	16.4
	1991	28	10.3	2098	16.6
	1992	59	21.6	2145	17.0
	1993	61	22.3	2266	17.9
	1994	17	6.2	721	5.7

Source: UNOS OPTN/Scientific Registry data.



## Heart Transplants: January 1, 1988 - April 30, 1994

Survival Report for Hospital of University of Pennsylvania - Philadelphia PA  
Provider Number 390111 (PAUP)Graft Survival

	Era 1: 1/1/88-4/30/92			Era 2: 5/1/92-4/30/94			Overall: 1/1/88-4/30/94						
Time Point	No. of TX	Act. Rate (%)	Exp. Rate (%)	No. of TX	Act. Rate (%)	Exp. Rate (%)	No. of TX	No. <sup>1</sup> w/CFU	No. Failed	Act. Rate (%)	Exp. Rate (%)	Diff. (%)	p- <sup>2</sup> value
1 Month	65	86.2	92.4	40	97.5	91.7	105	105	10	90.5	92.2	-1.7	0.51
1 Year	65	75.4	82.7	40	82.5	82.3	105	105	23	78.1	82.6	-4.5	0.22
Cond. <sup>3</sup> 3 Years	49	89.6	90.8				49	47	5	89.6	90.8	-1.2	0.77
3 Years <sup>3</sup>		67.6	75.1										

Patient Survival

	Era 1: 1/1/88-4/30/92			Era 2: 5/1/92-4/30/94			Overall: 1/1/88-4/30/94						
Time Point	No. of Pts. <sup>4</sup>	Act. Rate (%)	Exp. Rate (%)	No. of Pts. <sup>4</sup>	Act. Rate (%)	Exp. Rate (%)	No. of Pts. <sup>4</sup>	No. <sup>1,5</sup> w/CFU	No. <sup>5</sup> Died	Act. Rate (%)	Exp. Rate (%)	Diff. (%)	p- <sup>2</sup> value
1 Month	64	85.9	92.8	40	97.5	92.2	104	104.0	10.0	90.4	92.6	-2.2	0.39
1 Year	64	76.6	83.4	40	82.5	82.9	104	104.0	22.0	78.8	83.2	-4.4	0.23
Cond. <sup>3</sup> 3 Years	49	89.6	91.3				49	47.0	5.0	89.6	91.3	-1.7	0.68
3 Years <sup>3</sup>		68.6	76.2										

Notes: <sup>1</sup> No. with complete follow-up (CFU) is the total of the number of patients (grafts) whose status was known during the specified time interval.

<sup>2</sup> A p-value followed by an \* indicates that the difference is statistically significant at the 0.05 level.

<sup>3</sup> Conditional 3 year survival rates are the survival rates conditional on survival at 1 year. These are computed based on transplants between 1/1/88 and 4/30/92. Three year survival rates are computed by multiplying the 1 year and the conditional 3 year survival rates.

<sup>4</sup> The numbers of patients in Era 1 and Era 2 do not necessarily add up to the number of patients in the overall period, due to repeat transplants in different eras for some patients.

<sup>5</sup> No. w/CFU or No. Died may be fractional if patients received more than one transplant at the program.

Source: UNOS OPTN/Scientific Registry data.

**Heart Transplants: January 1, 1988 - April 30, 1994**  
**Donor and Recipient Characteristics: Program and National Frequencies**

**Hospital of University of Pennsylvania - Philadelphia PA**  
**Provider Number 390111 (PAUP)**

		----- Program -----		--- National ---	
		Number	%	Number	%
<b>Total Transplants and Percentages</b>		<b>105</b>	<b>100.0</b>	<b>12627</b>	<b>100.0</b>
<b>Donor Age</b>	0-5	3	2.9	799	6.3
	6-10	1	1.0	274	2.2
	11-17	14	13.3	2029	16.1
	18-49	82	78.1	8923	70.7
	50-64	5	4.8	589	4.7
	65+	0	0.0	12	0.1
	Not Reported	0	0.0	1	0.0
<b>Donor Gender</b>	Female	30	28.6	3728	29.5
	Male	75	71.4	8899	70.5
<b>Donor Race</b>	White	88	83.8	10036	79.5
	Black	15	14.3	1263	10.0
	Hispanic	1	1.0	1143	9.1
	Asian	0	0.0	90	0.7
	Other	1	1.0	87	0.7
	Not Reported	0	0.0	8	0.1
<b>Recipient Age</b>	<1	0	0.0	549	4.3
	1-10	0	0.0	431	3.4
	11-17	0	0.0	358	2.8
	18-49	39	37.1	4493	35.6
	50-64	65	61.9	6373	50.5
	65+	1	1.0	423	3.3
<b>Recipient Gender</b>	Female	23	21.9	2761	21.9
	Male	82	78.1	9866	78.1
<b>Recipient Race</b>	White	92	87.6	10504	83.2
	Black	8	7.6	1206	9.6
	Hispanic	1	1.0	570	4.5
	Asian	2	1.9	125	1.0
	Other	2	1.9	216	1.7
	Not Reported	0	0.0	6	0.0

		----- Program -----		--- National ---	
		Number	%	Number	%
<b>Previous Heart Transplant</b>	No	104	99.0	12231	96.9
	Yes	1	1.0	344	2.7
	Not Reported	0	0.0	52	0.4
<b>On Ventilator at Transplant</b>	No	103	98.1	11892	94.2
	Yes	2	1.9	663	5.3
	Not Reported	0	0.0	72	0.6
<b>On VAD at Transplant</b>	No	102	97.1	12187	96.5
	Yes	3	2.9	366	2.9
	Not Reported	0	0.0	74	0.6
<b>On IABP at Transplant</b>	No	97	92.4	11754	93.1
	Yes	8	7.6	801	6.3
	Not Reported	0	0.0	72	0.6
<b>Diagnosis at Transplant</b>	Coronary Artery Disease	59	56.2	5222	41.4
	Cardiomyopathy	40	38.1	5779	45.8
	Eisenmenger's Syndrome/Congenital	1	1.0	933	7.4
	Valvular Heart Disease	5	4.8	476	3.8
	Other Diagnosis	0	0.0	183	1.4
	Not Reported	0	0.0	34	0.3
<b>Medical Condition at Transplant</b>	Not Hospitalized	27	25.7	5606	44.4
	Hospitalized	2	1.9	986	7.8
	In ICU	76	72.4	6019	47.7
	Not Reported	0	0.0	16	0.1
<b>Cold Ischemia Time</b>	Up to 2 hrs	29	27.6	3458	27.4
	> 2 - 2.5 hrs	34	32.4	2271	18.0
	> 2.5 - 3 hrs	20	19.0	2408	19.1
	> 3 - 3.5 hrs	12	11.4	1949	15.4
	> 3.5 hrs	10	9.5	2453	19.4
	Not Reported	0	0.0	88	0.7
<b>Year of Transplant</b>	1988	16	15.2	1649	13.1
	1989	12	11.4	1677	13.3
	1990	15	14.3	2071	16.4
	1991	16	15.2	2098	16.6
	1992	23	21.9	2145	17.0
	1993	18	17.1	2266	17.9
	1994	5	4.8	721	5.7

Source: UNOS OPTN/Scientific Registry data.

**Response From: Hospital of the University of Pennsylvania  
3400 Spruce Street, Philadelphia, PA 19104  
Provider Number 390111 (PAUP)**

May 19, 1997

The University of Pennsylvania Medical Center's Cardiac Transplantation Program was begun in April, 1987. From January 1, 1988 to April 30, 1994, the University of Pennsylvania Medical Center has performed 105 orthotopic heart transplant, with an overall actuarial survival rate of 90.4% at one month and 78.8% at one year. These data reflect our program's long-standing commitment to high-quality patient care, especially among complex, high-risk patients. While no purely statistical analysis such as this one should ever be used as the sole measure of a transplant program's quality, the UNOS data are one measure of the success of our cardiac transplantation program.

When these patient survival statistics are adjusted for the more complex cases done at the University of Pennsylvania Medical Center, our results are consistent with national UNOS (3 month survival = 86.3%; 1 year = 79.6%) and Medicare norms.

We believe our excellent statistics are a reflection of our multi-disciplinary approach, with careful pre-transplant heart failure interventions, post-transplant follow-up, and close cooperation among medical, surgical, and other specialists.

Michael A. Acker, MD  
Surgical Director  
Cardiac Transplantation Program



Evan Loh, MD  
Medical Director  
Cardiac Transplantation Program



## Heart Transplants: January 1, 1988 - April 30, 1994

Survival Report for Medical University of South Carolina - Charleston SC  
Provider Number 420004 (SCMU)Graft Survival

	Era 1: 1/1/88-4/30/92			Era 2: 5/1/92-4/30/94			Overall: 1/1/88-4/30/94						
Time Point	No. of TX	Act. Rate (%)	Exp. Rate (%)	No. of TX	Act. Rate (%)	Exp. Rate (%)	No. of TX	No. <sup>1</sup> w/CFU	No. Failed	Act. Rate (%)	Exp. Rate (%)	Diff. (%)	p- <sup>2</sup> value
1 Month	48	100.0	93.7	34	94.1	93.4	82	82	2	97.6	93.6	3.9	0.13
1 Year	48	85.4	83.7	34	94.1	84.2	82	82	9	89.0	83.9	5.1	0.20
Cond. <sup>3</sup> 3 Years	41	92.7	89.9				41	41	3	92.7	89.9	2.8	0.55
3 Years <sup>3</sup>		79.2	75.3										

Patient Survival

	Era 1: 1/1/88-4/30/92			Era 2: 5/1/92-4/30/94			Overall: 1/1/88-4/30/94						
Time Point	No. of Pts. <sup>4</sup>	Act. Rate (%)	Exp. Rate (%)	No. of Pts. <sup>4</sup>	Act. Rate (%)	Exp. Rate (%)	No. of Pts. <sup>4</sup>	No. <sup>1,5</sup> w/CFU	No. <sup>5</sup> Died	Act. Rate (%)	Exp. Rate (%)	Diff. (%)	p- <sup>2</sup> value
1 Month	47	100.0	94.0	34	94.1	93.8	81	81.0	2.0	97.5	93.9	3.6	0.16
1 Year	47	87.2	84.5	34	94.1	84.8	81	81.0	8.0	90.1	84.6	5.5	0.16
Cond. <sup>3</sup> 3 Years	41	92.7	90.4				41	41.0	3.0	92.7	90.4	2.3	0.62
3 Years <sup>3</sup>		80.9	76.4										

Notes: <sup>1</sup> No. with complete follow-up (CFU) is the total of the number of patients (grafts) whose status was known during the specified time interval.

<sup>2</sup> A p-value followed by an \* indicates that the difference is statistically significant at the 0.05 level.

<sup>3</sup> Conditional 3 year survival rates are the survival rates conditional on survival at 1 year. These are computed based on transplants between 1/1/88 and 4/30/92. Three year survival rates are computed by multiplying the 1 year and the conditional 3 year survival rates.

<sup>4</sup> The numbers of patients in Era 1 and Era 2 do not necessarily add up to the number of patients in the overall period, due to repeat transplants in different eras for some patients.

<sup>5</sup> No. w/CFU or No. Died may be fractional if patients received more than one transplant at the program.

Source: UNOS OPTN/Scientific Registry data.

**Heart Transplants: January 1, 1988 - April 30, 1994**  
**Donor and Recipient Characteristics: Program and National Frequencies**

**Medical University of South Carolina - Charleston SC**  
**Provider Number 420004 (SCMU)**

		----- Program -----		--- National ---	
		Number	%	Number	%
<b>Total Transplants and Percentages</b>		<b>82</b>	<b>100.0</b>	<b>12627</b>	<b>100.0</b>
<b>Donor Age</b>	0-5	0	0.0	799	6.3
	6-10	1	1.2	274	2.2
	11-17	12	14.6	2029	16.1
	18-49	63	76.8	8923	70.7
	50-64	6	7.3	589	4.7
	65+	0	0.0	12	0.1
	Not Reported	0	0.0	1	0.0
<b>Donor Gender</b>	Female	14	17.1	3728	29.5
	Male	68	82.9	8899	70.5
<b>Donor Race</b>	White	69	84.1	10036	79.5
	Black	12	14.6	1263	10.0
	Hispanic	0	0.0	1143	9.1
	Asian	1	1.2	90	0.7
	Other	0	0.0	87	0.7
	Not Reported	0	0.0	8	0.1
<b>Recipient Age</b>	<1	0	0.0	549	4.3
	1-10	1	1.2	431	3.4
	11-17	0	0.0	358	2.8
	18-49	40	48.8	4493	35.6
	50-64	40	48.8	6373	50.5
	65+	1	1.2	423	3.3
<b>Recipient Gender</b>	Female	16	19.5	2761	21.9
	Male	66	80.5	9866	78.1
<b>Recipient Race</b>	White	63	76.8	10504	83.2
	Black	19	23.2	1206	9.6
	Hispanic	0	0.0	570	4.5
	Asian	0	0.0	125	1.0
	Other	0	0.0	216	1.7
	Not Reported	0	0.0	6	0.0



		----- Program -----		--- National ---	
		Number	%	Number	%
Previous Heart Transplant	No	75	91.5	12231	96.9
	Yes	1	1.2	344	2.7
	Not Reported	6	7.3	52	0.4
On Ventilator at Transplant	No	81	98.8	11892	94.2
	Yes	1	1.2	663	5.3
	Not Reported	0	0.0	72	0.6
On VAD at Transplant	No	81	98.8	12187	96.5
	Yes	1	1.2	366	2.9
	Not Reported	0	0.0	74	0.6
On IABP at Transplant	No	79	96.3	11754	93.1
	Yes	3	3.7	801	6.3
	Not Reported	0	0.0	72	0.6
Diagnosis at Transplant	Coronary Artery Disease	49	59.8	5222	41.4
	Cardiomyopathy	32	39.0	5779	45.8
	Eisenmenger's Syndrome/Congenital	1	1.2	933	7.4
	Valvular Heart Disease	0	0.0	476	3.8
	Other Diagnosis	0	0.0	183	1.4
	Not Reported	0	0.0	34	0.3
Medical Condition at Transplant	Not Hospitalized	70	85.4	5606	44.4
	Hospitalized	6	7.3	986	7.8
	In ICU	6	7.3	6019	47.7
	Not Reported	0	0.0	16	0.1
Cold Ischemia Time	Up to 2 hrs	19	23.2	3458	27.4
	> 2 - 2.5 hrs	5	6.1	2271	18.0
	> 2.5 - 3 hrs	7	8.5	2408	19.1
	> 3 - 3.5 hrs	20	24.4	1949	15.4
	> 3.5 hrs	31	37.8	2453	19.4
	Not Reported	0	0.0	88	0.7
Year of Transplant	1988	10	12.2	1649	13.1
	1989	11	13.4	1677	13.3
	1990	14	17.1	2071	16.4
	1991	10	12.2	2098	16.6
	1992	10	12.2	2145	17.0
	1993	18	22.0	2266	17.9
	1994	9	11.0	721	5.7

Source: UNOS OPTN/Scientific Registry data.



## Heart Transplants: January 1, 1988 - April 30, 1994

Survival Report for Baptist Memorial Hospital - Memphis TN  
Provider Number 440048 (TNBM)Graft Survival

	Era 1: 1/1/88-4/30/92			Era 2: 5/1/92-4/30/94			Overall: 1/1/88-4/30/94						
Time Point	No. of TX	Act. Rate (%)	Exp. Rate (%)	No. of TX	Act. Rate (%)	Exp. Rate (%)	No. of TX	No. <sup>1</sup> w/CFU	No. Failed	Act. Rate (%)	Exp. Rate (%)	Diff. (%)	p- <sup>2</sup> value
1 Month	31	93.5	92.0	20	90.0	92.2	51	51	4	92.2	92.0	0.1	0.98
1 Year	31	83.9	82.3	20	90.0	82.1	51	51	7	86.3	82.3	4.0	0.44
Cond. <sup>3</sup> 3 Years	26	92.3	91.0				26	26	2	92.3	91.0	1.3	0.82
3 Years <sup>3</sup>		77.4	74.9										

Patient Survival

	Era 1: 1/1/88-4/30/92			Era 2: 5/1/92-4/30/94			Overall: 1/1/88-4/30/94						
Time Point	No. of Pts. <sup>4</sup>	Act. Rate (%)	Exp. Rate (%)	No. of Pts. <sup>4</sup>	Act. Rate (%)	Exp. Rate (%)	No. of Pts. <sup>4</sup>	No. <sup>1,5</sup> w/CFU	No. <sup>5</sup> Died	Act. Rate (%)	Exp. Rate (%)	Diff. (%)	p- <sup>2</sup> value
1 Month	31	93.4	92.2	20	89.7	92.9	50	50.0	4.0	92.0	92.5	-0.5	0.89
1 Year	31	83.6	82.8	20	89.7	83.4	50	50.0	7.0	86.0	83.1	2.9	0.57
Cond. <sup>3</sup> 3 Years	26	92.3	91.4				26	26.0	2.0	92.3	91.4	0.9	0.86
3 Years <sup>3</sup>		77.2	75.7										

Notes: <sup>1</sup> No. with complete follow-up (CFU) is the total of the number of patients (grafts) whose status was known during the specified time interval.

<sup>2</sup> A p-value followed by an \* indicates that the difference is statistically significant at the 0.05 level.

<sup>3</sup> Conditional 3 year survival rates are the survival rates conditional on survival at 1 year. These are computed based on transplants between 1/1/88 and 4/30/92. Three year survival rates are computed by multiplying the 1 year and the conditional 3 year survival rates.

<sup>4</sup> The numbers of patients in Era 1 and Era 2 do not necessarily add up to the number of patients in the overall period, due to repeat transplants in different eras for some patients.

<sup>5</sup> No. w/CFU or No. Died may be fractional if patients received more than one transplant at the program.

Source: UNOS OPTN/Scientific Registry data.

**Heart Transplants: January 1, 1988 - April 30, 1994**  
**Donor and Recipient Characteristics: Program and National Frequencies**

**Baptist Memorial Hospital - Memphis TN**  
**Provider Number 440048 (TNBM)**

		----- Program -----		--- National ---	
		Number	%	Number	%
<b>Total Transplants and Percentages</b>		<b>51</b>	<b>100.0</b>	<b>12627</b>	<b>100.0</b>
<b>Donor Age</b>	0-5	0	0.0	799	6.3
	6-10	0	0.0	274	2.2
	11-17	9	17.6	2029	16.1
	18-49	39	76.5	8923	70.7
	50-64	3	5.9	589	4.7
	65+	0	0.0	12	0.1
	Not Reported	0	0.0	1	0.0
<b>Donor Gender</b>	Female	18	35.3	3728	29.5
	Male	33	64.7	8899	70.5
<b>Donor Race</b>	White	45	88.2	10036	79.5
	Black	6	11.8	1263	10.0
	Hispanic	0	0.0	1143	9.1
	Asian	0	0.0	90	0.7
	Other	0	0.0	87	0.7
	Not Reported	0	0.0	8	0.1
<b>Recipient Age</b>	<1	0	0.0	549	4.3
	1-10	0	0.0	431	3.4
	11-17	0	0.0	358	2.8
	18-49	26	51.0	4493	35.6
	50-64	25	49.0	6373	50.5
	65+	0	0.0	423	3.3
<b>Recipient Gender</b>	Female	10	19.6	2761	21.9
	Male	41	80.4	9866	78.1
<b>Recipient Race</b>	White	38	74.5	10504	83.2
	Black	13	25.5	1206	9.6
	Hispanic	0	0.0	570	4.5
	Asian	0	0.0	125	1.0
	Other	0	0.0	216	1.7
	Not Reported	0	0.0	6	0.0

		----- Program -----		--- National ---	
		Number	%	Number	%
<b>Previous Heart Transplant</b>	No	48	94.1	12231	96.9
	Yes	2	3.9	344	2.7
	Not Reported	1	2.0	52	0.4
<b>On Ventilator at Transplant</b>	No	48	94.1	11892	94.2
	Yes	3	5.9	663	5.3
	Not Reported	0	0.0	72	0.6
<b>On VAD at Transplant</b>	No	49	96.1	12187	96.5
	Yes	2	3.9	366	2.9
	Not Reported	0	0.0	74	0.6
<b>On IABP at Transplant</b>	No	46	90.2	11754	93.1
	Yes	5	9.8	801	6.3
	Not Reported	0	0.0	72	0.6
<b>Diagnosis at Transplant</b>	Coronary Artery Disease	31	60.8	5222	41.4
	Cardiomyopathy	18	35.3	5779	45.8
	Eisenmenger's Syndrome/Congenital	0	0.0	933	7.4
	Valvular Heart Disease	2	3.9	476	3.8
	Other Diagnosis	0	0.0	183	1.4
	Not Reported	0	0.0	34	0.3
<b>Medical Condition at Transplant</b>	Not Hospitalized	20	39.2	5606	44.4
	Hospitalized	5	9.8	986	7.8
	In ICU	26	51.0	6019	47.7
	Not Reported	0	0.0	16	0.1
<b>Cold Ischemia Time</b>	Up to 2 hrs	17	33.3	3458	27.4
	> 2 - 2.5 hrs	6	11.8	2271	18.0
	> 2.5 - 3 hrs	8	15.7	2408	19.1
	> 3 - 3.5 hrs	14	27.5	1949	15.4
	> 3.5 hrs	6	11.8	2453	19.4
	Not Reported	0	0.0	88	0.7
<b>Year of Transplant</b>	1988	5	9.8	1649	13.1
	1989	4	7.8	1677	13.3
	1990	14	27.5	2071	16.4
	1991	8	15.7	2098	16.6
	1992	6	11.8	2145	17.0
	1993	11	21.6	2266	17.9
	1994	3	5.9	721	5.7

Source: UNOS OPTN/Scientific Registry data.

## Heart Transplants: January 1, 1988 - April 30, 1994

Survival Report for Le Bonheur Children's Medical Center - Memphis TN  
Provider Number 443301 (TNLB)Graft Survival

	Era 1: 1/1/88-4/30/92			Era 2: 5/1/92-4/30/94			Overall: 1/1/88-4/30/94						
Time Point	No. of TX	Act. Rate (%)	Exp. Rate (%)	No. of TX	Act. Rate (%)	Exp. Rate (%)	No. of TX	No. <sup>1</sup> w/CFU	No. Failed	Act. Rate (%)	Exp. Rate (%)	Diff. (%)	p- <sup>2</sup> value
1 Month	5	80.0	86.4	2	100.0	89.8	7	7	1	85.7	87.3	-1.6	0.89
1 Year	5	80.0	73.8	2	100.0	76.3	7	7	1	85.7	74.6	11.2	0.48
Cond. <sup>3</sup> 3 Years	4	100.0	87.4				4	4	0	100.0	87.4	12.6	0.66
3 Years <sup>3</sup>		80.0	64.6										

Patient Survival

	Era 1: 1/1/88-4/30/92			Era 2: 5/1/92-4/30/94			Overall: 1/1/88-4/30/94						
Time Point	No. of Pts. <sup>4</sup>	Act. Rate (%)	Exp. Rate (%)	No. of Pts. <sup>4</sup>	Act. Rate (%)	Exp. Rate (%)	No. of Pts. <sup>4</sup>	No. <sup>1,5</sup> w/CFU	No. <sup>5</sup> Died	Act. Rate (%)	Exp. Rate (%)	Diff. (%)	p- <sup>2</sup> value
1 Month	5	80.0	86.8	2	100.0	89.8	7	7.0	1.0	85.7	87.6	-1.9	0.87
1 Year	5	80.0	75.2	2	100.0	77.1	7	7.0	1.0	85.7	75.7	10.0	0.52
Cond. <sup>3</sup> 3 Years	4	100.0	88.0				4	4.0	0.0	100.0	88.0	12.0	0.67
3 Years <sup>3</sup>		80.0	66.2										

Notes: <sup>1</sup>. No. with complete follow-up (CFU) is the total of the number of patients (grafts) whose status was known during the specified time interval.

<sup>2</sup>. A p-value followed by an \* indicates that the difference is statistically significant at the 0.05 level.

<sup>3</sup>. Conditional 3 year survival rates are the survival rates conditional on survival at 1 year. These are computed based on transplants between 1/1/88 and 4/30/92. Three year survival rates are computed by multiplying the 1 year and the conditional 3 year survival rates.

<sup>4</sup>. The numbers of patients in Era 1 and Era 2 do not necessarily add up to the number of patients in the overall period, due to repeat transplants in different eras for some patients.

<sup>5</sup>. No. w/CFU or No. Died may be fractional if patients received more than one transplant at the program.

Source: UNOS OPTN/Scientific Registry data.

**Heart Transplants: January 1, 1988 - April 30, 1994**  
**Donor and Recipient Characteristics: Program and National Frequencies**

**Le Bonheur Children's Medical Center - Memphis TN**  
**Provider Number 443301 (TNLB)**

		----- Program -----		--- National ---	
		Number	%	Number	%
<b>Total Transplants and Percentages</b>		<b>7</b>	<b>100.0</b>	<b>12627</b>	<b>100.0</b>
<b>Donor Age</b>	0-5	4	57.1	799	6.3
	6-10	0	0.0	274	2.2
	11-17	1	14.3	2029	16.1
	18-49	2	28.6	8923	70.7
	50-64	0	0.0	589	4.7
	65+	0	0.0	12	0.1
	Not Reported	0	0.0	1	0.0
<b>Donor Gender</b>	Female	6	85.7	3728	29.5
	Male	1	14.3	8899	70.5
<b>Donor Race</b>	White	5	71.4	10036	79.5
	Black	2	28.6	1263	10.0
	Hispanic	0	0.0	1143	9.1
	Asian	0	0.0	90	0.7
	Other	0	0.0	87	0.7
	Not Reported	0	0.0	8	0.1
<b>Recipient Age</b>	<1	3	42.9	549	4.3
	1-10	2	28.6	431	3.4
	11-17	2	28.6	358	2.8
	18-49	0	0.0	4493	35.6
	50-64	0	0.0	6373	50.5
	65+	0	0.0	423	3.3
<b>Recipient Gender</b>	Female	5	71.4	2761	21.9
	Male	2	28.6	9866	78.1
<b>Recipient Race</b>	White	4	57.1	10504	83.2
	Black	3	42.9	1206	9.6
	Hispanic	0	0.0	570	4.5
	Asian	0	0.0	125	1.0
	Other	0	0.0	216	1.7
	Not Reported	0	0.0	6	0.0

		----- Program -----		--- National ---	
		Number	%	Number	%
<b>Previous Heart Transplant</b>	No	7	100.0	12231	96.9
	Yes	0	0.0	344	2.7
	Not Reported	0	0.0	52	0.4
<b>On Ventilator at Transplant</b>	No	6	85.7	11892	94.2
	Yes	1	14.3	663	5.3
	Not Reported	0	0.0	72	0.6
<b>On VAD at Transplant</b>	No	7	100.0	12187	96.5
	Yes	0	0.0	366	2.9
	Not Reported	0	0.0	74	0.6
<b>On IABP at Transplant</b>	No	7	100.0	11754	93.1
	Yes	0	0.0	801	6.3
	Not Reported	0	0.0	72	0.6
<b>Diagnosis at Transplant</b>	Coronary Artery Disease	0	0.0	5222	41.4
	Cardiomyopathy	4	57.1	5779	45.8
	Eisenmenger's Syndrome/Congenital	2	28.6	933	7.4
	Valvular Heart Disease	0	0.0	476	3.8
	Other Diagnosis	1	14.3	183	1.4
	Not Reported	0	0.0	34	0.3
<b>Medical Condition at Transplant</b>	Not Hospitalized	2	28.6	5606	44.4
	Hospitalized	1	14.3	986	7.8
	In ICU	4	57.1	6019	47.7
	Not Reported	0	0.0	16	0.1
<b>Cold Ischemia Time</b>	Up to 2 hrs	2	28.6	3458	27.4
	> 2 - 2.5 hrs	1	14.3	2271	18.0
	> 2.5 - 3 hrs	0	0.0	2408	19.1
	> 3 - 3.5 hrs	2	28.6	1949	15.4
	> 3.5 hrs	2	28.6	2453	19.4
	Not Reported	0	0.0	88	0.7
<b>Year of Transplant</b>	1988	0	0.0	1649	13.1
	1989	2	28.6	1677	13.3
	1990	1	14.3	2071	16.4
	1991	2	28.6	2098	16.6
	1992	0	0.0	2145	17.0
	1993	2	28.6	2266	17.9
	1994	0	0.0	721	5.7

Source: UNOS OPTN/Scientific Registry data.



## Heart Transplants: January 1, 1988 - April 30, 1994

Survival Report for Methodist Hospitals - Memphis TN  
Provider Number 440049 (TNMH)Graft Survival

	Era 1: 1/1/88-4/30/92			Era 2: 5/1/92-4/30/94			Overall: 1/1/88-4/30/94						
Time Point	No. of TX	Act. Rate (%)	Exp. Rate (%)	No. of TX	Act. Rate (%)	Exp. Rate (%)	No. of TX	No. <sup>1</sup> w/CFU	No. Failed	Act. Rate (%)	Exp. Rate (%)	Diff. (%)	p- <sup>2</sup> value
1 Month	32	90.6	93.6	11	72.7	93.3	43	43	6	86.0	93.5	-7.5	0.05*
1 Year	32	81.3	84.7	11	54.5	83.2	43	43	11	74.4	84.3	-9.9	0.07
Cond. <sup>3</sup> 3 Years	26	88.5	91.3				26	26	3	88.5	91.3	-2.8	0.61
3 Years <sup>3</sup>		71.9	77.3										

Patient Survival

	Era 1: 1/1/88-4/30/92			Era 2: 5/1/92-4/30/94			Overall: 1/1/88-4/30/94						
Time Point	No. of Pts. <sup>4</sup>	Act. Rate (%)	Exp. Rate (%)	No. of Pts. <sup>4</sup>	Act. Rate (%)	Exp. Rate (%)	No. of Pts. <sup>4</sup>	No. <sup>1,5</sup> w/CFU	No. <sup>5</sup> Died	Act. Rate (%)	Exp. Rate (%)	Diff. (%)	p- <sup>2</sup> value
1 Month	32	90.6	93.9	11	72.7	93.4	43	43.0	6.0	86.0	93.8	-7.7	0.03*
1 Year	32	81.3	85.4	11	54.5	83.6	43	43.0	11.0	74.4	84.9	-10.5	0.05
Cond. <sup>3</sup> 3 Years	26	88.5	91.7				26	26.0	3.0	88.5	91.7	-3.2	0.55
3 Years <sup>3</sup>		71.9	78.3										

Notes: <sup>1</sup> No. with complete follow-up (CFU) is the total of the number of patients (grafts) whose status was known during the specified time interval.

<sup>2</sup> A p-value followed by an \* indicates that the difference is statistically significant at the 0.05 level.

<sup>3</sup> Conditional 3 year survival rates are the survival rates conditional on survival at 1 year. These are computed based on transplants between 1/1/88 and 4/30/92. Three year survival rates are computed by multiplying the 1 year and the conditional 3 year survival rates.

<sup>4</sup> The numbers of patients in Era 1 and Era 2 do not necessarily add up to the number of patients in the overall period, due to repeat transplants in different eras for some patients.

<sup>5</sup> No. w/CFU or No. Died may be fractional if patients received more than one transplant at the program.

Source: UNOS OPTN/Scientific Registry data.



**Heart Transplants: January 1, 1988 - April 30, 1994**  
**Donor and Recipient Characteristics: Program and National Frequencies**

**Methodist Hospitals - Memphis TN**  
**Provider Number 440049 (TNMH)**

		----- Program -----		--- National ---	
		Number	%	Number	%
<b>Total Transplants and Percentages</b>		<b>43</b>	<b>100.0</b>	<b>12627</b>	<b>100.0</b>
<b>Donor Age</b>	0-5	0	0.0	799	6.3
	6-10	1	2.3	274	2.2
	11-17	12	27.9	2029	16.1
	18-49	30	69.8	8923	70.7
	50-64	0	0.0	589	4.7
	65+	0	0.0	12	0.1
	Not Reported	0	0.0	1	0.0
<b>Donor Gender</b>	Female	8	18.6	3728	29.5
	Male	35	81.4	8899	70.5
<b>Donor Race</b>	White	36	83.7	10036	79.5
	Black	6	14.0	1263	10.0
	Hispanic	1	2.3	1143	9.1
	Asian	0	0.0	90	0.7
	Other	0	0.0	87	0.7
	Not Reported	0	0.0	8	0.1
<b>Recipient Age</b>	<1	0	0.0	549	4.3
	1-10	0	0.0	431	3.4
	11-17	0	0.0	358	2.8
	18-49	22	51.2	4493	35.6
	50-64	20	46.5	6373	50.5
	65+	1	2.3	423	3.3
<b>Recipient Gender</b>	Female	5	11.6	2761	21.9
	Male	38	88.4	9866	78.1
<b>Recipient Race</b>	White	35	81.4	10504	83.2
	Black	8	18.6	1206	9.6
	Hispanic	0	0.0	570	4.5
	Asian	0	0.0	125	1.0
	Other	0	0.0	216	1.7
	Not Reported	0	0.0	6	0.0

		----- Program -----		--- National ---	
		Number	%	Number	%
<b>Previous Heart Transplant</b>	No	42	97.7	12231	96.9
	Yes	0	0.0	344	2.7
	Not Reported	1	2.3	52	0.4
<b>On Ventilator at Transplant</b>	No	41	95.3	11892	94.2
	Yes	2	4.7	663	5.3
	Not Reported	0	0.0	72	0.6
<b>On VAD at Transplant</b>	No	40	93.0	12187	96.5
	Yes	3	7.0	366	2.9
	Not Reported	0	0.0	74	0.6
<b>On IABP at Transplant</b>	No	40	93.0	11754	93.1
	Yes	3	7.0	801	6.3
	Not Reported	0	0.0	72	0.6
<b>Diagnosis at Transplant</b>	Coronary Artery Disease	26	60.5	5222	41.4
	Cardiomyopathy	16	37.2	5779	45.8
	Eisenmenger's Syndrome/Congenital	0	0.0	933	7.4
	Valvular Heart Disease	1	2.3	476	3.8
	Other Diagnosis	0	0.0	183	1.4
	Not Reported	0	0.0	34	0.3
<b>Medical Condition at Transplant</b>	Not Hospitalized	17	39.5	5606	44.4
	Hospitalized	6	14.0	986	7.8
	In ICU	20	46.5	6019	47.7
	Not Reported	0	0.0	16	0.1
<b>Cold Ischemia Time</b>	Up to 2 hrs	14	32.6	3458	27.4
	> 2 - 2.5 hrs	10	23.3	2271	18.0
	> 2.5 - 3 hrs	9	20.9	2408	19.1
	> 3 - 3.5 hrs	6	14.0	1949	15.4
	> 3.5 hrs	4	9.3	2453	19.4
	Not Reported	0	0.0	88	0.7
<b>Year of Transplant</b>	1988	10	23.3	1649	13.1
	1989	9	20.9	1677	13.3
	1990	8	18.6	2071	16.4
	1991	4	9.3	2098	16.6
	1992	8	18.6	2145	17.0
	1993	3	7.0	2266	17.9
	1994	1	2.3	721	5.7

Source: UNOS OPTN/Scientific Registry data.

## Heart Transplants: January 1, 1988 - April 30, 1994

## Survival Report for St Thomas Hospital - Nashville TN

Provider Number 440082 (TNST)

Graft Survival

	Era 1: 1/1/88-4/30/92			Era 2: 5/1/92-4/30/94			Overall: 1/1/88-4/30/94						
Time Point	No. of TX	Act. Rate (%)	Exp. Rate (%)	No. of TX	Act. Rate (%)	Exp. Rate (%)	No. of TX	No. <sup>1</sup> w/CFU	No. Failed	Act. Rate (%)	Exp. Rate (%)	Diff. (%)	p- <sup>2</sup> value
1 Month	47	89.4	93.1	35	91.4	91.2	82	82	8	90.2	92.3	-2.1	0.47
1 Year	47	85.1	84.0	35	77.1	82.2	82	82	15	81.7	83.3	-1.6	0.70
Cond. <sup>3</sup> 3 Years	40	92.5	90.8				40	40	3	92.5	90.8	1.7	0.72
3 Years <sup>3</sup>		78.7	76.3										

Patient Survival

	Era 1: 1/1/88-4/30/92			Era 2: 5/1/92-4/30/94			Overall: 1/1/88-4/30/94						
Time Point	No. of Pts. <sup>4</sup>	Act. Rate (%)	Exp. Rate (%)	No. of Pts. <sup>4</sup>	Act. Rate (%)	Exp. Rate (%)	No. of Pts. <sup>4</sup>	No. <sup>1,5</sup> w/CFU	No. <sup>5</sup> Died	Act. Rate (%)	Exp. Rate (%)	Diff. (%)	p- <sup>2</sup> value
1 Month	47	89.4	93.4	35	91.4	91.6	82	82.0	8.0	90.2	92.6	-2.4	0.40
1 Year	47	85.1	84.6	35	77.1	82.7	82	82.0	15.0	81.7	83.8	-2.1	0.60
Cond. <sup>3</sup> 3 Years	40	92.5	91.3				40	40.0	3.0	92.5	91.3	1.2	0.79
3 Years <sup>3</sup>		78.7	77.2										

Notes: <sup>1</sup> No. with complete follow-up (CFU) is the total of the number of patients (grafts) whose status was known during the specified time interval.

<sup>2</sup> A p-value followed by an \* indicates that the difference is statistically significant at the 0.05 level.

<sup>3</sup> Conditional 3 year survival rates are the survival rates conditional on survival at 1 year. These are computed based on transplants between 1/1/88 and 4/30/92. Three year survival rates are computed by multiplying the 1 year and the conditional 3 year survival rates.

<sup>4</sup> The numbers of patients in Era 1 and Era 2 do not necessarily add up to the number of patients in the overall period, due to repeat transplants in different eras for some patients.

<sup>5</sup> No. w/CFU or No. Died may be fractional if patients received more than one transplant at the program.

Source: UNOS OPTN/Scientific Registry data.

**Heart Transplants: January 1, 1988 - April 30, 1994**  
**Donor and Recipient Characteristics: Program and National Frequencies**

**St Thomas Hospital - Nashville TN**  
**Provider Number 440082 (TNST)**

		----- Program -----		--- National ---	
		Number	%	Number	%
<b>Total Transplants and Percentages</b>		<b>82</b>	<b>100.0</b>	<b>12627</b>	<b>100.0</b>
<b>Donor Age</b>	0-5	0	0.0	799	6.3
	6-10	0	0.0	274	2.2
	11-17	6	7.3	2029	16.1
	18-49	70	85.4	8923	70.7
	50-64	6	7.3	589	4.7
	65+	0	0.0	12	0.1
	Not Reported	0	0.0	1	0.0
<b>Donor Gender</b>	Female	14	17.1	3728	29.5
	Male	68	82.9	8899	70.5
<b>Donor Race</b>	White	75	91.5	10036	79.5
	Black	7	8.5	1263	10.0
	Hispanic	0	0.0	1143	9.1
	Asian	0	0.0	90	0.7
	Other	0	0.0	87	0.7
	Not Reported	0	0.0	8	0.1
<b>Recipient Age</b>	<1	1	1.2	549	4.3
	1-10	0	0.0	431	3.4
	11-17	0	0.0	358	2.8
	18-49	28	34.1	4493	35.6
	50-64	51	62.2	6373	50.5
	65+	2	2.4	423	3.3
<b>Recipient Gender</b>	Female	17	20.7	2761	21.9
	Male	65	79.3	9866	78.1
<b>Recipient Race</b>	White	75	91.5	10504	83.2
	Black	5	6.1	1206	9.6
	Hispanic	1	1.2	570	4.5
	Asian	0	0.0	125	1.0
	Other	1	1.2	216	1.7
	Not Reported	0	0.0	6	0.0

		----- Program -----		--- National ---	
		Number	%	Number	%
Previous Heart Transplant	No	81	98.8	12231	96.9
	Yes	1	1.2	344	2.7
	Not Reported	0	0.0	52	0.4
On Ventilator at Transplant	No	78	95.1	11892	94.2
	Yes	4	4.9	663	5.3
	Not Reported	0	0.0	72	0.6
On VAD at Transplant	No	82	100.0	12187	96.5
	Yes	0	0.0	366	2.9
	Not Reported	0	0.0	74	0.6
On IABP at Transplant	No	78	95.1	11754	93.1
	Yes	4	4.9	801	6.3
	Not Reported	0	0.0	72	0.6
Diagnosis at Transplant	Coronary Artery Disease	55	67.1	5222	41.4
	Cardiomyopathy	24	29.3	5779	45.8
	Eisenmenger's Syndrome/Congenital	0	0.0	933	7.4
	Valvular Heart Disease	3	3.7	476	3.8
	Other Diagnosis	0	0.0	183	1.4
	Not Reported	0	0.0	34	0.3
Medical Condition at Transplant	Not Hospitalized	21	25.6	5606	44.4
	Hospitalized	10	12.2	986	7.8
	In ICU	51	62.2	6019	47.7
	Not Reported	0	0.0	16	0.1
Cold Ischemia Time	Up to 2 hrs	23	28.0	3458	27.4
	> 2 - 2.5 hrs	20	24.4	2271	18.0
	> 2.5 - 3 hrs	21	25.6	2408	19.1
	> 3 - 3.5 hrs	13	15.9	1949	15.4
	> 3.5 hrs	5	6.1	2453	19.4
	Not Reported	0	0.0	88	0.7
Year of Transplant	1988	12	14.6	1649	13.1
	1989	7	8.5	1677	13.3
	1990	13	15.9	2071	16.4
	1991	11	13.4	2098	16.6
	1992	10	12.2	2145	17.0
	1993	23	28.0	2266	17.9
	1994	6	7.3	721	5.7

Source: UNOS OPTN/Scientific Registry data.

## Heart Transplants: January 1, 1988 - April 30, 1994

Survival Report for Vanderbilt University Medical Center - Nashville TN  
Provider Number 440039 (TNVU)Graft Survival

	Era 1: 1/1/88-4/30/92			Era 2: 5/1/92-4/30/94			Overall: 1/1/88-4/30/94						
Time Point	No. of TX	Act. Rate (%)	Exp. Rate (%)	No. of TX	Act. Rate (%)	Exp. Rate (%)	No. of TX	No. <sup>1</sup> w/CFU	No. Failed	Act. Rate (%)	Exp. Rate (%)	Diff. (%)	p- <sup>2</sup> value
1 Month	113	93.8	91.8	48	93.8	92.5	161	161	10	93.8	92.0	1.8	0.39
1 Year	113	88.5	82.0	48	89.6	83.5	161	161	18	88.8	82.5	6.4	0.03*
Cond. <sup>3</sup> 3 Years	100	95.0	90.6				100	100	5	95.0	90.6	4.4	0.12
3 Years <sup>3</sup>		84.1	74.3										

Patient Survival

	Era 1: 1/1/88-4/30/92			Era 2: 5/1/92-4/30/94			Overall: 1/1/88-4/30/94						
Time Point	No. of Pts. <sup>4</sup>	Act. Rate (%)	Exp. Rate (%)	No. of Pts. <sup>4</sup>	Act. Rate (%)	Exp. Rate (%)	No. of Pts. <sup>4</sup>	No. <sup>1,5</sup> w/CFU	No. <sup>5</sup> Died	Act. Rate (%)	Exp. Rate (%)	Diff. (%)	p- <sup>2</sup> value
1 Month	113	93.8	92.1	48	93.8	92.9	161	161.0	10.0	93.8	92.4	1.4	0.48
1 Year	113	88.5	82.7	48	89.6	84.2	161	161.0	18.0	88.8	83.1	5.7	0.05*
Cond. <sup>3</sup> 3 Years	100	95.0	91.0				100	100.0	5.0	95.0	91.0	4.0	0.16
3 Years <sup>3</sup>		84.1	75.2										

Notes: <sup>1</sup> No. with complete follow-up (CFU) is the total of the number of patients (grafts) whose status was known during the specified time interval.

<sup>2</sup> A p-value followed by an \* indicates that the difference is statistically significant at the 0.05 level.

<sup>3</sup> Conditional 3 year survival rates are the survival rates conditional on survival at 1 year. These are computed based on transplants between 1/1/88 and 4/30/92. Three year survival rates are computed by multiplying the 1 year and the conditional 3 year survival rates.

<sup>4</sup> The numbers of patients in Era 1 and Era 2 do not necessarily add up to the number of patients in the overall period, due to repeat transplants in different eras for some patients.

<sup>5</sup> No. w/CFU or No. Died may be fractional if patients received more than one transplant at the program.

Source: UNOS OPTN/Scientific Registry data.

**Heart Transplants: January 1, 1988 - April 30, 1994**  
**Donor and Recipient Characteristics: Program and National Frequencies**

**Vanderbilt University Medical Center - Nashville TN**  
**Provider Number 440039 (TNVU)**

		----- Program -----		--- National ---	
		Number	%	Number	%
<b>Total Transplants and Percentages</b>		<b>161</b>	<b>100.0</b>	<b>12627</b>	<b>100.0</b>
<b>Donor Age</b>	0-5	24	14.9	799	6.3
	6-10	1	0.6	274	2.2
	11-17	26	16.1	2029	16.1
	18-49	107	66.5	8923	70.7
	50-64	3	1.9	589	4.7
	65+	0	0.0	12	0.1
	Not Reported	0	0.0	1	0.0
<b>Donor Gender</b>	Female	47	29.2	3728	29.5
	Male	114	70.8	8899	70.5
<b>Donor Race</b>	White	136	84.5	10036	79.5
	Black	16	9.9	1263	10.0
	Hispanic	3	1.9	1143	9.1
	Asian	2	1.2	90	0.7
	Other	3	1.9	87	0.7
	Not Reported	1	0.6	8	0.1
<b>Recipient Age</b>	<1	17	10.6	549	4.3
	1-10	8	5.0	431	3.4
	11-17	9	5.6	358	2.8
	18-49	52	32.3	4493	35.6
	50-64	73	45.3	6373	50.5
	65+	2	1.2	423	3.3
<b>Recipient Gender</b>	Female	32	19.9	2761	21.9
	Male	129	80.1	9866	78.1
<b>Recipient Race</b>	White	139	86.3	10504	83.2
	Black	20	12.4	1206	9.6
	Hispanic	2	1.2	570	4.5
	Asian	0	0.0	125	1.0
	Other	0	0.0	216	1.7
	Not Reported	0	0.0	6	0.0



		----- Program -----		--- National ---	
		Number	%	Number	%
<b>Previous Heart Transplant</b>	No	157	97.5	12231	96.9
	Yes	1	0.6	344	2.7
	Not Reported	3	1.9	52	0.4
<b>On Ventilator at Transplant</b>	No	153	95.0	11892	94.2
	Yes	7	4.3	663	5.3
	Not Reported	1	0.6	72	0.6
<b>On VAD at Transplant</b>	No	158	98.1	12187	96.5
	Yes	2	1.2	366	2.9
	Not Reported	1	0.6	74	0.6
<b>On IABP at Transplant</b>	No	151	93.8	11754	93.1
	Yes	9	5.6	801	6.3
	Not Reported	1	0.6	72	0.6
<b>Diagnosis at Transplant</b>	Coronary Artery Disease	60	37.3	5222	41.4
	Cardiomyopathy	64	39.8	5779	45.8
	Eisenmenger's Syndrome/Congenital	25	15.5	933	7.4
	Valvular Heart Disease	9	5.6	476	3.8
	Other Diagnosis	3	1.9	183	1.4
	Not Reported	0	0.0	34	0.3
<b>Medical Condition at Transplant</b>	Not Hospitalized	61	37.9	5606	44.4
	Hospitalized	13	8.1	986	7.8
	In ICU	87	54.0	6019	47.7
	Not Reported	0	0.0	16	0.1
<b>Cold Ischemia Time</b>	Up to 2 hrs	60	37.3	3458	27.4
	> 2 - 2.5 hrs	25	15.5	2271	18.0
	> 2.5 - 3 hrs	40	24.8	2408	19.1
	> 3 - 3.5 hrs	18	11.2	1949	15.4
	> 3.5 hrs	18	11.2	2453	19.4
	Not Reported	0	0.0	88	0.7
<b>Year of Transplant</b>	1988	12	7.5	1649	13.1
	1989	28	17.4	1677	13.3
	1990	36	22.4	2071	16.4
	1991	25	15.5	2098	16.6
	1992	26	16.1	2145	17.0
	1993	30	18.6	2266	17.9
	1994	4	2.5	721	5.7

Source: UNOS OPTN/Scientific Registry data.

## Heart Transplants: January 1, 1988 - April 30, 1994

Survival Report for Brooke Army Medical Center - Fort Sam Houston TX  
Provider Number 45069F (TXBA)Graft Survival

	Era 1: 1/1/88-4/30/92			Era 2: 5/1/92-4/30/94			Overall: 1/1/88-4/30/94						
Time Point	No. of TX	Act. Rate (%)	Exp. Rate (%)	No. of TX	Act. Rate (%)	Exp. Rate (%)	No. of TX	No. <sup>1</sup> w/CFU	No. Failed	Act. Rate (%)	Exp. Rate (%)	Diff. (%)	p- <sup>2</sup> value
1 Month				2	100.0	92.6	2	2	0	100.0	92.6	7.4	0.86
1 Year				2	100.0	78.6	2	2	0	100.0	78.6	21.4	0.66
Cond. <sup>3</sup> 3 Years													
3 Years <sup>3</sup>													

Patient Survival

	Era 1: 1/1/88-4/30/92			Era 2: 5/1/92-4/30/94			Overall: 1/1/88-4/30/94						
Time Point	No. of Pts. <sup>4</sup>	Act. Rate (%)	Exp. Rate (%)	No. of Pts. <sup>4</sup>	Act. Rate (%)	Exp. Rate (%)	No. of Pts. <sup>4</sup>	No. <sup>1,5</sup> w/CFU	No. <sup>5</sup> Died	Act. Rate (%)	Exp. Rate (%)	Diff. (%)	p- <sup>2</sup> value
1 Month				2	100.0	92.6	2	2.0	0.0	100.0	92.6	7.4	0.86
1 Year				2	100.0	79.6	2	2.0	0.0	100.0	79.6	20.4	0.68
Cond. <sup>3</sup> 3 Years													
3 Years <sup>3</sup>													

Notes: <sup>1</sup> No. with complete follow-up (CFU) is the total of the number of patients (grafts) whose status was known during the specified time interval.

<sup>2</sup> A p-value followed by an \* indicates that the difference is statistically significant at the 0.05 level.

<sup>3</sup> Conditional 3 year survival rates are the survival rates conditional on survival at 1 year. These are computed based on transplants between 1/1/88 and 4/30/92. Three year survival rates are computed by multiplying the 1 year and the conditional 3 year survival rates.

<sup>4</sup> The numbers of patients in Era 1 and Era 2 do not necessarily add up to the number of patients in the overall period, due to repeat transplants in different eras for some patients.

<sup>5</sup> No. w/CFU or No. Died may be fractional if patients received more than one transplant at the program.

Source: UNOS OPTN/Scientific Registry data.

**Heart Transplants: January 1, 1988 - April 30, 1994**  
**Donor and Recipient Characteristics: Program and National Frequencies**

**Brooke Army Medical Center - Fort Sam Houston TX**  
**Provider Number 45069F (TXBA)**

		----- Program -----		--- National ---	
		Number	%	Number	%
<b>Total Transplants and Percentages</b>		<b>2</b>	<b>100.0</b>	<b>12627</b>	<b>100.0</b>
<b>Donor Age</b>	0-5	0	0.0	799	6.3
	6-10	0	0.0	274	2.2
	11-17	0	0.0	2029	16.1
	18-49	1	50.0	8923	70.7
	50-64	1	50.0	589	4.7
	65+	0	0.0	12	0.1
	Not Reported	0	0.0	1	0.0
<b>Donor Gender</b>	Female	1	50.0	3728	29.5
	Male	1	50.0	8899	70.5
<b>Donor Race</b>	White	0	0.0	10036	79.5
	Black	0	0.0	1263	10.0
	Hispanic	2	100.0	1143	9.1
	Asian	0	0.0	90	0.7
	Other	0	0.0	87	0.7
	Not Reported	0	0.0	8	0.1
<b>Recipient Age</b>	<1	0	0.0	549	4.3
	1-10	0	0.0	431	3.4
	11-17	0	0.0	358	2.8
	18-49	2	100.0	4493	35.6
	50-64	0	0.0	6373	50.5
	65+	0	0.0	423	3.3
<b>Recipient Gender</b>	Female	0	0.0	2761	21.9
	Male	2	100.0	9866	78.1
<b>Recipient Race</b>	White	0	0.0	10504	83.2
	Black	2	100.0	1206	9.6
	Hispanic	0	0.0	570	4.5
	Asian	0	0.0	125	1.0
	Other	0	0.0	216	1.7
	Not Reported	0	0.0	6	0.0

		----- Program -----		--- National ---	
		Number	%	Number	%
<b>Previous Heart Transplant</b>	No	2	100.0	12231	96.9
	Yes	0	0.0	344	2.7
	Not Reported	0	0.0	52	0.4
<b>On Ventilator at Transplant</b>	No	2	100.0	11892	94.2
	Yes	0	0.0	663	5.3
	Not Reported	0	0.0	72	0.6
<b>On VAD at Transplant</b>	No	2	100.0	12187	96.5
	Yes	0	0.0	366	2.9
	Not Reported	0	0.0	74	0.6
<b>On IABP at Transplant</b>	No	2	100.0	11754	93.1
	Yes	0	0.0	801	6.3
	Not Reported	0	0.0	72	0.6
<b>Diagnosis at Transplant</b>	Coronary Artery Disease	0	0.0	5222	41.4
	Cardiomyopathy	2	100.0	5779	45.8
	Eisenmenger's Syndrome/Congenital	0	0.0	933	7.4
	Valvular Heart Disease	0	0.0	476	3.8
	Other Diagnosis	0	0.0	183	1.4
	Not Reported	0	0.0	34	0.3
<b>Medical Condition at Transplant</b>	Not Hospitalized	0	0.0	5606	44.4
	Hospitalized	0	0.0	986	7.8
	In ICU	2	100.0	6019	47.7
	Not Reported	0	0.0	16	0.1
<b>Cold Ischemia Time</b>	Up to 2 hrs	2	100.0	3458	27.4
	> 2 - 2.5 hrs	0	0.0	2271	18.0
	> 2.5 - 3 hrs	0	0.0	2408	19.1
	> 3 - 3.5 hrs	0	0.0	1949	15.4
	> 3.5 hrs	0	0.0	2453	19.4
	Not Reported	0	0.0	88	0.7
<b>Year of Transplant</b>	1988	0	0.0	1649	13.1
	1989	0	0.0	1677	13.3
	1990	0	0.0	2071	16.4
	1991	0	0.0	2098	16.6
	1992	0	0.0	2145	17.0
	1993	2	100.0	2266	17.9
	1994	0	0.0	721	5.7

Source: UNOS OPTN/Scientific Registry data.

## Heart Transplants: January 1, 1988 - April 30, 1994

Survival Report for University Hospital - San Antonio TX  
Provider Number 450213 (TXBC)Graft Survival

	Era 1: 1/1/88-4/30/92			Era 2: 5/1/92-4/30/94			Overall: 1/1/88-4/30/94						
Time Point	No. of TX	Act. Rate (%)	Exp. Rate (%)	No. of TX	Act. Rate (%)	Exp. Rate (%)	No. of TX	No. <sup>1</sup> w/CFU	No. Failed	Act. Rate (%)	Exp. Rate (%)	Diff. (%)	p- <sup>2</sup> value
1 Month	55	92.7	93.8	17	100.0	94.4	72	72	4	94.4	93.9	0.5	0.85
1 Year	55	81.7	83.9	17	88.2	84.7	72	71	12	83.2	84.1	-0.8	0.84
Cond. <sup>3</sup> 3 Years	44	76.9	89.2				44	42	10	76.9	89.2	-12.3	<0.01*
3 Years <sup>3</sup>		62.8	74.8										

Patient Survival

	Era 1: 1/1/88-4/30/92			Era 2: 5/1/92-4/30/94			Overall: 1/1/88-4/30/94						
Time Point	No. of Pts. <sup>4</sup>	Act. Rate (%)	Exp. Rate (%)	No. of Pts. <sup>4</sup>	Act. Rate (%)	Exp. Rate (%)	No. of Pts. <sup>4</sup>	No. <sup>1,5</sup> w/CFU	No. <sup>5</sup> Died	Act. Rate (%)	Exp. Rate (%)	Diff. (%)	p- <sup>2</sup> value
1 Month	55	92.7	94.0	17	100.0	94.6	72	72.0	4.0	94.4	94.2	0.3	0.92
1 Year	55	81.7	84.5	17	88.2	85.2	72	71.0	12.0	83.2	84.7	-1.5	0.73
Cond. <sup>3</sup> 3 Years	44	76.9	89.8				44	42.0	10.0	76.9	89.8	-12.8	<0.01*
3 Years <sup>3</sup>		62.8	75.9										

Notes: <sup>1</sup> No. with complete follow-up (CFU) is the total of the number of patients (grafts) whose status was known during the specified time interval.

<sup>2</sup> A p-value followed by an \* indicates that the difference is statistically significant at the 0.05 level.

<sup>3</sup> Conditional 3 year survival rates are the survival rates conditional on survival at 1 year. These are computed based on transplants between 1/1/88 and 4/30/92. Three year survival rates are computed by multiplying the 1 year and the conditional 3 year survival rates.

<sup>4</sup> The numbers of patients in Era 1 and Era 2 do not necessarily add up to the number of patients in the overall period, due to repeat transplants in different eras for some patients.

<sup>5</sup> No. w/CFU or No. Died may be fractional if patients received more than one transplant at the program.

Source: UNOS OPTN/Scientific Registry data.

**Heart Transplants: January 1, 1988 - April 30, 1994**  
**Donor and Recipient Characteristics: Program and National Frequencies**

**University Hospital - San Antonio TX**  
**Provider Number 450213 (TXBC)**

		----- Program -----		--- National ---	
		Number	%	Number	%
<b>Total Transplants and Percentages</b>		<b>72</b>	<b>100.0</b>	<b>12627</b>	<b>100.0</b>
<b>Donor Age</b>	0-5	4	5.6	799	6.3
	6-10	3	4.2	274	2.2
	11-17	17	23.6	2029	16.1
	18-49	46	63.9	8923	70.7
	50-64	2	2.8	589	4.7
	65+	0	0.0	12	0.1
	Not Reported	0	0.0	1	0.0
<b>Donor Gender</b>	Female	16	22.2	3728	29.5
	Male	56	77.8	8899	70.5
<b>Donor Race</b>	White	40	55.6	10036	79.5
	Black	5	6.9	1263	10.0
	Hispanic	22	30.6	1143	9.1
	Asian	0	0.0	90	0.7
	Other	5	6.9	87	0.7
	Not Reported	0	0.0	8	0.1
<b>Recipient Age</b>	<1	4	5.6	549	4.3
	1-10	0	0.0	431	3.4
	11-17	4	5.6	358	2.8
	18-49	30	41.7	4493	35.6
	50-64	34	47.2	6373	50.5
	65+	0	0.0	423	3.3
<b>Recipient Gender</b>	Female	10	13.9	2761	21.9
	Male	62	86.1	9866	78.1
<b>Recipient Race</b>	White	51	70.8	10504	83.2
	Black	12	16.7	1206	9.6
	Hispanic	8	11.1	570	4.5
	Asian	0	0.0	125	1.0
	Other	1	1.4	216	1.7
	Not Reported	0	0.0	6	0.0

		----- Program -----		--- National ---	
		Number	%	Number	%
<b>Previous Heart Transplant</b>	No	70	97.2	12231	96.9
	Yes	0	0.0	344	2.7
	Not Reported	2	2.8	52	0.4
<b>On Ventilator at Transplant</b>	No	71	98.6	11892	94.2
	Yes	1	1.4	663	5.3
	Not Reported	0	0.0	72	0.6
<b>On VAD at Transplant</b>	No	72	100.0	12187	96.5
	Yes	0	0.0	366	2.9
	Not Reported	0	0.0	74	0.6
<b>On IABP at Transplant</b>	No	71	98.6	11754	93.1
	Yes	1	1.4	801	6.3
	Not Reported	0	0.0	72	0.6
<b>Diagnosis at Transplant</b>	Coronary Artery Disease	10	13.9	5222	41.4
	Cardiomyopathy	56	77.8	5779	45.8
	Eisenmenger's Syndrome/Congenital	5	6.9	933	7.4
	Valvular Heart Disease	0	0.0	476	3.8
	Other Diagnosis	1	1.4	183	1.4
	Not Reported	0	0.0	34	0.3
<b>Medical Condition at Transplant</b>	Not Hospitalized	38	52.8	5606	44.4
	Hospitalized	13	18.1	986	7.8
	In ICU	21	29.2	6019	47.7
	Not Reported	0	0.0	16	0.1
<b>Cold Ischemia Time</b>	Up to 2 hrs	23	31.9	3458	27.4
	> 2 - 2.5 hrs	13	18.1	2271	18.0
	> 2.5 - 3 hrs	11	15.3	2408	19.1
	> 3 - 3.5 hrs	12	16.7	1949	15.4
	> 3.5 hrs	13	18.1	2453	19.4
	Not Reported	0	0.0	88	0.7
<b>Year of Transplant</b>	1988	13	18.1	1649	13.1
	1989	9	12.5	1677	13.3
	1990	13	18.1	2071	16.4
	1991	14	19.4	2098	16.6
	1992	9	12.5	2145	17.0
	1993	12	16.7	2266	17.9
	1994	2	2.8	721	5.7

Source: UNOS OPTN/Scientific Registry data.



**Response From: University Hospital, University Of Texas Health Science Center  
7703 Floyd Curl Drive, San Antonio, TX 78284  
Provider Number 450213 (TXBC)**

May 12, 1997

The University of Texas Health Science Center at San Antonio Cardiac Transplant Program started in late 1987. From January 1, 1988 to April 30, 1994, we performed a number of transplants. We were the first transplant program in our region and have prided ourselves on excellent results. The Survival Report is an accurate reflection of the commitment to care and standards of excellence found at the University of Texas Health Science Center at San Antonio. Having only performed four transplants in the more recent time period, it is difficult to evaluate our current program and quality. In fact, we purposefully did a small number of transplants while we constructed a state of the art world class transplant facility that now houses hearts, livers, lungs, kidney and pancreas transplants under one roof. This unique unit has allowed us to develop one of the finest transplant programs available. Our commitment to transplantation at the Health Science Center is strong and our interest in excellent patient care is assured.

John H. Calhoon, MD  
Associate Professor and Head  
Thoracic Surgery

A handwritten signature in black ink, reading "John Calhoon" with a stylized flourish at the end.

## Heart Transplants: January 1, 1988 - April 30, 1994

Survival Report for Children's Medical Center - Dallas TX  
Provider Number 453302 (TXCM)Graft Survival

	Era 1: 1/1/88-4/30/92			Era 2: 5/1/92-4/30/94			Overall: 1/1/88-4/30/94						
Time Point	No. of TX	Act. Rate (%)	Exp. Rate (%)	No. of TX	Act. Rate (%)	Exp. Rate (%)	No. of TX	No. <sup>1</sup> w/CFU	No. Failed	Act. Rate (%)	Exp. Rate (%)	Diff. (%)	p- <sup>2</sup> value
1 Month	15	80.0	80.5	5	100.0	88.6	20	20	3	85.0	82.5	2.5	0.75
1 Year	15	66.7	66.9	5	80.0	76.1	20	20	6	70.0	69.2	0.8	0.93
Cond. <sup>3</sup> 3 Years	10	90.0	88.2				10	10	1	90.0	88.2	1.8	0.86
3 Years <sup>3</sup>		60.0	59.0										

Patient Survival

	Era 1: 1/1/88-4/30/92			Era 2: 5/1/92-4/30/94			Overall: 1/1/88-4/30/94						
Time Point	No. of Pts. <sup>4</sup>	Act. Rate (%)	Exp. Rate (%)	No. of Pts. <sup>4</sup>	Act. Rate (%)	Exp. Rate (%)	No. of Pts. <sup>4</sup>	No. <sup>1,5</sup> w/CFU	No. <sup>5</sup> Died	Act. Rate (%)	Exp. Rate (%)	Diff. (%)	p- <sup>2</sup> value
1 Month	13	84.2	84.7	5	100.0	89.1	17	17.0	2.0	88.2	85.8	2.4	0.76
1 Year	13	76.3	72.3	5	92.3	78.6	17	17.0	3.3	80.4	73.9	6.4	0.52
Cond. <sup>3</sup> 3 Years	10	90.0	89.0				10	10.0	1.0	90.0	89.0	1.0	0.92
3 Years <sup>3</sup>		68.7	64.4										

Notes: <sup>1</sup> No. with complete follow-up (CFU) is the total of the number of patients (grafts) whose status was known during the specified time interval.

<sup>2</sup> A p-value followed by an \* indicates that the difference is statistically significant at the 0.05 level.

<sup>3</sup> Conditional 3 year survival rates are the survival rates conditional on survival at 1 year. These are computed based on transplants between 1/1/88 and 4/30/92. Three year survival rates are computed by multiplying the 1 year and the conditional 3 year survival rates.

<sup>4</sup> The numbers of patients in Era 1 and Era 2 do not necessarily add up to the number of patients in the overall period, due to repeat transplants in different eras for some patients.

<sup>5</sup> No. w/CFU or No. Died may be fractional if patients received more than one transplant at the program.

Source: UNOS OPTN/Scientific Registry data.

**Heart Transplants: January 1, 1988 - April 30, 1994**  
**Donor and Recipient Characteristics: Program and National Frequencies**

**Children's Medical Center - Dallas TX**  
**Provider Number 453302 (TXCM)**

		----- Program -----		--- National ---	
		Number	%	Number	%
<b>Total Transplants and Percentages</b>		<b>20</b>	<b>100.0</b>	<b>12627</b>	<b>100.0</b>
<b>Donor Age</b>	0-5	12	60.0	799	6.3
	6-10	4	20.0	274	2.2
	11-17	1	5.0	2029	16.1
	18-49	3	15.0	8923	70.7
	50-64	0	0.0	589	4.7
	65+	0	0.0	12	0.1
	Not Reported	0	0.0	1	0.0
<b>Donor Gender</b>	Female	12	60.0	3728	29.5
	Male	8	40.0	8899	70.5
<b>Donor Race</b>	White	16	80.0	10036	79.5
	Black	2	10.0	1263	10.0
	Hispanic	2	10.0	1143	9.1
	Asian	0	0.0	90	0.7
	Other	0	0.0	87	0.7
	Not Reported	0	0.0	8	0.1
<b>Recipient Age</b>	<1	9	45.0	549	4.3
	1-10	5	25.0	431	3.4
	11-17	5	25.0	358	2.8
	18-49	1	5.0	4493	35.6
	50-64	0	0.0	6373	50.5
	65+	0	0.0	423	3.3
<b>Recipient Gender</b>	Female	13	65.0	2761	21.9
	Male	7	35.0	9866	78.1
<b>Recipient Race</b>	White	13	65.0	10504	83.2
	Black	4	20.0	1206	9.6
	Hispanic	3	15.0	570	4.5
	Asian	0	0.0	125	1.0
	Other	0	0.0	216	1.7
	Not Reported	0	0.0	6	0.0

		----- Program -----		--- National ---	
		Number	%	Number	%
<b>Previous Heart Transplant</b>	No	17	85.0	12231	96.9
	Yes	3	15.0	344	2.7
	Not Reported	0	0.0	52	0.4
<b>On Ventilator at Transplant</b>	No	14	70.0	11892	94.2
	Yes	6	30.0	663	5.3
	Not Reported	0	0.0	72	0.6
<b>On VAD at Transplant</b>	No	19	95.0	12187	96.5
	Yes	1	5.0	366	2.9
	Not Reported	0	0.0	74	0.6
<b>On IABP at Transplant</b>	No	20	100.0	11754	93.1
	Yes	0	0.0	801	6.3
	Not Reported	0	0.0	72	0.6
<b>Diagnosis at Transplant</b>	Coronary Artery Disease	0	0.0	5222	41.4
	Cardiomyopathy	11	55.0	5779	45.8
	Eisenmenger's Syndrome/Congenital	9	45.0	933	7.4
	Valvular Heart Disease	0	0.0	476	3.8
	Other Diagnosis	0	0.0	183	1.4
	Not Reported	0	0.0	34	0.3
<b>Medical Condition at Transplant</b>	Not Hospitalized	9	45.0	5606	44.4
	Hospitalized	1	5.0	986	7.8
	In ICU	10	50.0	6019	47.7
	Not Reported	0	0.0	16	0.1
<b>Cold Ischemia Time</b>	Up to 2 hrs	2	10.0	3458	27.4
	> 2 - 2.5 hrs	2	10.0	2271	18.0
	> 2.5 - 3 hrs	2	10.0	2408	19.1
	> 3 - 3.5 hrs	6	30.0	1949	15.4
	> 3.5 hrs	8	40.0	2453	19.4
	Not Reported	0	0.0	88	0.7
<b>Year of Transplant</b>	1988	3	15.0	1649	13.1
	1989	5	25.0	1677	13.3
	1990	1	5.0	2071	16.4
	1991	5	25.0	2098	16.6
	1992	3	15.0	2145	17.0
	1993	2	10.0	2266	17.9
	1994	1	5.0	721	5.7

Source: UNOS OPTN/Scientific Registry data.

## Heart Transplants: January 1, 1988 - April 30, 1994

Survival Report for Seton Medical Center - Austin TX  
Provider Number 450056 (TXCT)Graft Survival

	Era 1: 1/1/88-4/30/92			Era 2: 5/1/92-4/30/94			Overall: 1/1/88-4/30/94						
Time Point	No. of TX	Act. Rate (%)	Exp. Rate (%)	No. of TX	Act. Rate (%)	Exp. Rate (%)	No. of TX	No. <sup>1</sup> w/CFU	No. Failed	Act. Rate (%)	Exp. Rate (%)	Diff. (%)	p- <sup>2</sup> value
1 Month	56	89.3	91.7	19	89.5	94.5	75	75	8	89.3	92.4	-3.1	0.30
1 Year	56	75.0	81.6	19	89.5	85.2	75	75	16	78.7	82.5	-3.8	0.37
Cond. <sup>3</sup> 3 Years	42	90.5	90.0				42	42	4	90.5	90.0	0.5	0.91
3 Years <sup>3</sup>		67.9	73.4										

Patient Survival

	Era 1: 1/1/88-4/30/92			Era 2: 5/1/92-4/30/94			Overall: 1/1/88-4/30/94						
Time Point	No. of Pts. <sup>4</sup>	Act. Rate (%)	Exp. Rate (%)	No. of Pts. <sup>4</sup>	Act. Rate (%)	Exp. Rate (%)	No. of Pts. <sup>4</sup>	No. <sup>1,5</sup> w/CFU	No. <sup>5</sup> Died	Act. Rate (%)	Exp. Rate (%)	Diff. (%)	p- <sup>2</sup> value
1 Month	55	90.0	92.0	19	89.5	94.8	74	74.0	7.5	89.9	92.7	-2.9	0.33
1 Year	55	76.4	82.2	19	89.5	85.8	74	74.0	15.0	79.7	83.1	-3.4	0.42
Cond. <sup>3</sup> 3 Years	42	90.5	90.3				42	42.0	4.0	90.5	90.3	0.1	0.98
3 Years <sup>3</sup>		69.1	74.3										

Notes: <sup>1</sup> No. with complete follow-up (CFU) is the total of the number of patients (grafts) whose status was known during the specified time interval.

<sup>2</sup> A p-value followed by an \* indicates that the difference is statistically significant at the 0.05 level.

<sup>3</sup> Conditional 3 year survival rates are the survival rates conditional on survival at 1 year. These are computed based on transplants between 1/1/88 and 4/30/92. Three year survival rates are computed by multiplying the 1 year and the conditional 3 year survival rates.

<sup>4</sup> The numbers of patients in Era 1 and Era 2 do not necessarily add up to the number of patients in the overall period, due to repeat transplants in different eras for some patients.

<sup>5</sup> No. w/CFU or No. Died may be fractional if patients received more than one transplant at the program.

Source: UNOS OPTN/Scientific Registry data.

**Heart Transplants: January 1, 1988 - April 30, 1994**  
**Donor and Recipient Characteristics: Program and National Frequencies**

**Seton Medical Center - Austin TX**  
**Provider Number 450056 (TXCT)**

		----- Program -----		--- National ---	
		Number	%	Number	%
<b>Total Transplants and Percentages</b>		<b>75</b>	<b>100.0</b>	<b>12627</b>	<b>100.0</b>
<b>Donor Age</b>	0-5	0	0.0	799	6.3
	6-10	1	1.3	274	2.2
	11-17	14	18.7	2029	16.1
	18-49	57	76.0	8923	70.7
	50-64	2	2.7	589	4.7
	65+	1	1.3	12	0.1
	Not Reported	0	0.0	1	0.0
<b>Donor Gender</b>	Female	20	26.7	3728	29.5
	Male	55	73.3	8899	70.5
<b>Donor Race</b>	White	56	74.7	10036	79.5
	Black	4	5.3	1263	10.0
	Hispanic	12	16.0	1143	9.1
	Asian	0	0.0	90	0.7
	Other	2	2.7	87	0.7
	Not Reported	1	1.3	8	0.1
<b>Recipient Age</b>	<1	0	0.0	549	4.3
	1-10	0	0.0	431	3.4
	11-17	0	0.0	358	2.8
	18-49	28	37.3	4493	35.6
	50-64	42	56.0	6373	50.5
	65+	5	6.7	423	3.3
<b>Recipient Gender</b>	Female	15	20.0	2761	21.9
	Male	60	80.0	9866	78.1
<b>Recipient Race</b>	White	57	76.0	10504	83.2
	Black	5	6.7	1206	9.6
	Hispanic	13	17.3	570	4.5
	Asian	0	0.0	125	1.0
	Other	0	0.0	216	1.7
	Not Reported	0	0.0	6	0.0

		----- Program -----		--- National ---	
		Number	%	Number	%
<b>Previous Heart Transplant</b>	No	74	98.7	12231	96.9
	Yes	1	1.3	344	2.7
	Not Reported	0	0.0	52	0.4
<b>On Ventilator at Transplant</b>	No	69	92.0	11892	94.2
	Yes	6	8.0	663	5.3
	Not Reported	0	0.0	72	0.6
<b>On VAD at Transplant</b>	No	73	97.3	12187	96.5
	Yes	2	2.7	366	2.9
	Not Reported	0	0.0	74	0.6
<b>On IABP at Transplant</b>	No	71	94.7	11754	93.1
	Yes	4	5.3	801	6.3
	Not Reported	0	0.0	72	0.6
<b>Diagnosis at Transplant</b>	Coronary Artery Disease	47	62.7	5222	41.4
	Cardiomyopathy	24	32.0	5779	45.8
	Eisenmenger's Syndrome/Congenital	0	0.0	933	7.4
	Valvular Heart Disease	3	4.0	476	3.8
	Other Diagnosis	1	1.3	183	1.4
	Not Reported	0	0.0	34	0.3
<b>Medical Condition at Transplant</b>	Not Hospitalized	49	65.3	5606	44.4
	Hospitalized	7	9.3	986	7.8
	In ICU	19	25.3	6019	47.7
	Not Reported	0	0.0	16	0.1
<b>Cold Ischemia Time</b>	Up to 2 hrs	45	60.0	3458	27.4
	> 2 - 2.5 hrs	5	6.7	2271	18.0
	> 2.5 - 3 hrs	10	13.3	2408	19.1
	> 3 - 3.5 hrs	9	12.0	1949	15.4
	> 3.5 hrs	6	8.0	2453	19.4
	Not Reported	0	0.0	88	0.7
<b>Year of Transplant</b>	1988	10	13.3	1649	13.1
	1989	16	21.3	1677	13.3
	1990	13	17.3	2071	16.4
	1991	14	18.7	2098	16.6
	1992	11	14.7	2145	17.0
	1993	8	10.7	2266	17.9
	1994	3	4.0	721	5.7

Source: UNOS OPTN/Scientific Registry data.



**Response From: Seton Medical Center  
1201 West 38th Street, Austin TX, 78705  
Provider Number 450056 (TXCT)**

May 9, 1997

Seton Medical Center's Cardiac Transplant program began in December 1986. From January 1, 1988 to April 30, 1994, Seton's Cardiac transplant program performed 75 transplants with an overall transplant one year survival rating of 79.7%. The survival report is not an accurate reflection of the commitment to care and standards of excellence found at Seton Medical Center. Several factors were identified as having significant effect upon survival and volume. As noted in Era 1 (1/1/88-4/30/92), the actual one year survival rate was lower than the expected rate. Our program recognized that utilizing OKT3 induction therapy was responsible for an increase in morbidity and mortality rates in our patient population especially related to transplant lymphoproliferative disease. OKT3 induction was changed to triple drug therapy resulting in a significant decrease in mortality as seen in the Era 2 with the one year survival being 89.5%.

The volume of transplants at our center was lower during the period reported then expected. Two factors were identified by our program and measures were instituted to correct these. During the years between 1990-1994 the hospital-based organ procurement program (OPO) which served our program failed to perform effectively. Our program was influential in the decision to disband the program and associating with The South Texas Organ Bank. The number of donors has significantly increased since that time and is this trend is continuing.

The second factor related to a decrease in the number of transplants performed during 1993-1994 was the reorganization of the health care system that governed Seton Medical Center. Administration changed and the transplant program was evaluated as to its effectiveness both clinically and financially. The review showed that we did indeed have an excellent program. Opportunities for improvement and expansion of services were identified and even more resources both human and financial were dedicated to the program. This continued support is evidenced by an increase in referrals, and increase in transplants to 18 in 1995 and 16 in 1996, expansion of outreach effort, expansion of services to include a Congestive Heart Failure program and increase in insurance contracts.

We, the physicians, administration and staff of the Seton Medical Center Cardiac Transplant Program are very proud of our program. We met stringent membership criteria to become a member of UNOS and a Medicare transplant center. We will continue to provide the finest patient care available found anywhere in the United States.

John D. Oswalt M.D.  
Program Chair



## Heart Transplants: January 1, 1988 - April 30, 1994

Survival Report for Columbia Hospital at Medical City Dallas - Dallas TX  
Provider Number 450647 (TXHD)Graft Survival

	Era 1: 1/1/88-4/30/92			Era 2: 5/1/92-4/30/94			Overall: 1/1/88-4/30/94						
Time Point	No. of TX	Act. Rate (%)	Exp. Rate (%)	No. of TX	Act. Rate (%)	Exp. Rate (%)	No. of TX	No. <sup>1</sup> w/CFU	No. Failed	Act. Rate (%)	Exp. Rate (%)	Diff. (%)	p- <sup>2</sup> value
1 Month	12	100.0	91.7	20	100.0	93.3	32	32	0	100.0	92.7	7.3	0.11
1 Year	12	66.7	80.2	20	95.0	84.1	32	32	5	84.4	82.6	1.8	0.79
Cond. <sup>3</sup> 3 Years	8	100.0	89.4				8	8	0	100.0	89.4	10.6	0.33
3 Years <sup>3</sup>		66.7	71.7										

Patient Survival

	Era 1: 1/1/88-4/30/92			Era 2: 5/1/92-4/30/94			Overall: 1/1/88-4/30/94						
Time Point	No. of Pts. <sup>4</sup>	Act. Rate (%)	Exp. Rate (%)	No. of Pts. <sup>4</sup>	Act. Rate (%)	Exp. Rate (%)	No. of Pts. <sup>4</sup>	No. <sup>1,5</sup> w/CFU	No. <sup>5</sup> Died	Act. Rate (%)	Exp. Rate (%)	Diff. (%)	p- <sup>2</sup> value
1 Month	11	100.0	92.6	20	100.0	93.6	31	31.0	0.0	100.0	93.3	6.7	0.13
1 Year	11	72.7	81.8	20	95.0	84.6	31	31.0	4.0	87.1	83.6	3.5	0.60
Cond. <sup>3</sup> 3 Years	8	100.0	89.8				8	8.0	0.0	100.0	89.8	10.2	0.34
3 Years <sup>3</sup>		72.7	73.4										

Notes: <sup>1</sup> No. with complete follow-up (CFU) is the total of the number of patients (grafts) whose status was known during the specified time interval.

<sup>2</sup> A p-value followed by an \* indicates that the difference is statistically significant at the 0.05 level.

<sup>3</sup> Conditional 3 year survival rates are the survival rates conditional on survival at 1 year. These are computed based on transplants between 1/1/88 and 4/30/92. Three year survival rates are computed by multiplying the 1 year and the conditional 3 year survival rates.

<sup>4</sup> The numbers of patients in Era 1 and Era 2 do not necessarily add up to the number of patients in the overall period, due to repeat transplants in different eras for some patients.

<sup>5</sup> No. w/CFU or No. Died may be fractional if patients received more than one transplant at the program.

Source: UNOS OPTN/Scientific Registry data.

**Heart Transplants: January 1, 1988 - April 30, 1994**  
**Donor and Recipient Characteristics: Program and National Frequencies**

**Columbia Hospital at Medical City Dallas - Dallas TX**  
**Provider Number 450647 (TXHD)**

		----- Program -----		--- National ---	
		Number	%	Number	%
<b>Total Transplants and Percentages</b>		<b>32</b>	<b>100.0</b>	<b>12627</b>	<b>100.0</b>
<b>Donor Age</b>	0-5	0	0.0	799	6.3
	6-10	0	0.0	274	2.2
	11-17	3	9.4	2029	16.1
	18-49	29	90.6	8923	70.7
	50-64	0	0.0	589	4.7
	65+	0	0.0	12	0.1
	Not Reported	0	0.0	1	0.0
<b>Donor Gender</b>	Female	10	31.3	3728	29.5
	Male	22	68.8	8899	70.5
<b>Donor Race</b>	White	20	62.5	10036	79.5
	Black	3	9.4	1263	10.0
	Hispanic	7	21.9	1143	9.1
	Asian	2	6.3	90	0.7
	Other	0	0.0	87	0.7
	Not Reported	0	0.0	8	0.1
<b>Recipient Age</b>	<1	0	0.0	549	4.3
	1-10	0	0.0	431	3.4
	11-17	2	6.3	358	2.8
	18-49	11	34.4	4493	35.6
	50-64	19	59.4	6373	50.5
	65+	0	0.0	423	3.3
<b>Recipient Gender</b>	Female	6	18.8	2761	21.9
	Male	26	81.3	9866	78.1
<b>Recipient Race</b>	White	30	93.8	10504	83.2
	Black	2	6.3	1206	9.6
	Hispanic	0	0.0	570	4.5
	Asian	0	0.0	125	1.0
	Other	0	0.0	216	1.7
	Not Reported	0	0.0	6	0.0

		----- Program -----		--- National ---	
		Number	%	Number	%
<b>Previous Heart Transplant</b>	No	31	96.9	12231	96.9
	Yes	1	3.1	344	2.7
	Not Reported	0	0.0	52	0.4
<b>On Ventilator at Transplant</b>	No	31	96.9	11892	94.2
	Yes	1	3.1	663	5.3
	Not Reported	0	0.0	72	0.6
<b>On VAD at Transplant</b>	No	32	100.0	12187	96.5
	Yes	0	0.0	366	2.9
	Not Reported	0	0.0	74	0.6
<b>On IABP at Transplant</b>	No	29	90.6	11754	93.1
	Yes	3	9.4	801	6.3
	Not Reported	0	0.0	72	0.6
<b>Diagnosis at Transplant</b>	Coronary Artery Disease	12	37.5	5222	41.4
	Cardiomyopathy	18	56.3	5779	45.8
	Eisenmenger's Syndrome/Congenital	0	0.0	933	7.4
	Valvular Heart Disease	0	0.0	476	3.8
	Other Diagnosis	2	6.3	183	1.4
	Not Reported	0	0.0	34	0.3
<b>Medical Condition at Transplant</b>	Not Hospitalized	11	34.4	5606	44.4
	Hospitalized	0	0.0	986	7.8
	In ICU	21	65.6	6019	47.7
	Not Reported	0	0.0	16	0.1
<b>Cold Ischemia Time</b>	Up to 2 hrs	11	34.4	3458	27.4
	> 2 - 2.5 hrs	4	12.5	2271	18.0
	> 2.5 - 3 hrs	8	25.0	2408	19.1
	> 3 - 3.5 hrs	6	18.8	1949	15.4
	> 3.5 hrs	3	9.4	2453	19.4
	Not Reported	0	0.0	88	0.7
<b>Year of Transplant</b>	1988	0	0.0	1649	13.1
	1989	0	0.0	1677	13.3
	1990	0	0.0	2071	16.4
	1991	5	15.6	2098	16.6
	1992	8	25.0	2145	17.0
	1993	15	46.9	2266	17.9
	1994	4	12.5	721	5.7

Source: UNOS OPTN/Scientific Registry data.

## Heart Transplants: January 1, 1988 - April 30, 1994

Survival Report for Hermann Hospital - Houston TX  
Provider Number 450068 (TXHH)Graft Survival

	Era 1: 1/1/88-4/30/92			Era 2: 5/1/92-4/30/94			Overall: 1/1/88-4/30/94						
Time Point	No. of TX	Act. Rate (%)	Exp. Rate (%)	No. of TX	Act. Rate (%)	Exp. Rate (%)	No. of TX	No. <sup>1</sup> w/CFU	No. Failed	Act. Rate (%)	Exp. Rate (%)	Diff. (%)	p- <sup>2</sup> value
1 Month	1	100.0	85.8				1	1	0	100.0	85.8	14.2	1.00
1 Year	1	100.0	74.4				1	1	0	100.0	74.4	25.6	1.00
Cond. <sup>3</sup> 3 Years	1	100.0	78.3				1	0	0	100.0	78.3	21.7	1.00
3 Years <sup>3</sup>		100.0	58.2										

Patient Survival

	Era 1: 1/1/88-4/30/92			Era 2: 5/1/92-4/30/94			Overall: 1/1/88-4/30/94						
Time Point	No. of Pts. <sup>4</sup>	Act. Rate (%)	Exp. Rate (%)	No. of Pts. <sup>4</sup>	Act. Rate (%)	Exp. Rate (%)	No. of Pts. <sup>4</sup>	No. <sup>1,5</sup> w/CFU	No. <sup>5</sup> Died	Act. Rate (%)	Exp. Rate (%)	Diff. (%)	p- <sup>2</sup> value
1 Month	1	100.0	86.9				1	1.0	0.0	100.0	86.9	13.1	1.00
1 Year	1	100.0	75.0				1	1.0	0.0	100.0	75.0	25.0	1.00
Cond. <sup>3</sup> 3 Years	1	100.0	79.8				1	0.0	0.0	100.0	79.8	20.2	1.00
3 Years <sup>3</sup>		100.0	59.9										

Notes: <sup>1</sup> No. with complete follow-up (CFU) is the total of the number of patients (grafts) whose status was known during the specified time interval.

<sup>2</sup> A p-value followed by an \* indicates that the difference is statistically significant at the 0.05 level.

<sup>3</sup> Conditional 3 year survival rates are the survival rates conditional on survival at 1 year. These are computed based on transplants between 1/1/88 and 4/30/92. Three year survival rates are computed by multiplying the 1 year and the conditional 3 year survival rates.

<sup>4</sup> The numbers of patients in Era 1 and Era 2 do not necessarily add up to the number of patients in the overall period, due to repeat transplants in different eras for some patients.

<sup>5</sup> No. w/CFU or No. Died may be fractional if patients received more than one transplant at the program.

Source: UNOS OPTN/Scientific Registry data.

**Heart Transplants: January 1, 1988 - April 30, 1994**  
**Donor and Recipient Characteristics: Program and National Frequencies**

**Hermann Hospital - Houston TX**  
**Provider Number 450068 (TXHH)**

		----- Program -----		--- National ---	
		Number	%	Number	%
<b>Total Transplants and Percentages</b>		<b>1</b>	<b>100.0</b>	<b>12627</b>	<b>100.0</b>
<b>Donor Age</b>	0-5	0	0.0	799	6.3
	6-10	0	0.0	274	2.2
	11-17	0	0.0	2029	16.1
	18-49	1	100.0	8923	70.7
	50-64	0	0.0	589	4.7
	65+	0	0.0	12	0.1
	Not Reported	0	0.0	1	0.0
<b>Donor Gender</b>	Female	0	0.0	3728	29.5
	Male	1	100.0	8899	70.5
<b>Donor Race</b>	White	0	0.0	10036	79.5
	Black	0	0.0	1263	10.0
	Hispanic	1	100.0	1143	9.1
	Asian	0	0.0	90	0.7
	Other	0	0.0	87	0.7
	Not Reported	0	0.0	8	0.1
<b>Recipient Age</b>	<1	0	0.0	549	4.3
	1-10	0	0.0	431	3.4
	11-17	0	0.0	358	2.8
	18-49	1	100.0	4493	35.6
	50-64	0	0.0	6373	50.5
	65+	0	0.0	423	3.3
<b>Recipient Gender</b>	Female	0	0.0	2761	21.9
	Male	1	100.0	9866	78.1
<b>Recipient Race</b>	White	0	0.0	10504	83.2
	Black	0	0.0	1206	9.6
	Hispanic	1	100.0	570	4.5
	Asian	0	0.0	125	1.0
	Other	0	0.0	216	1.7
	Not Reported	0	0.0	6	0.0



		----- Program -----		--- National ---	
		Number	%	Number	%
<b>Previous Heart Transplant</b>	No	1	100.0	12231	96.9
	Yes	0	0.0	344	2.7
	Not Reported	0	0.0	52	0.4
<b>On Ventilator at Transplant</b>	No	1	100.0	11892	94.2
	Yes	0	0.0	663	5.3
	Not Reported	0	0.0	72	0.6
<b>On VAD at Transplant</b>	No	1	100.0	12187	96.5
	Yes	0	0.0	366	2.9
	Not Reported	0	0.0	74	0.6
<b>On IABP at Transplant</b>	No	1	100.0	11754	93.1
	Yes	0	0.0	801	6.3
	Not Reported	0	0.0	72	0.6
<b>Diagnosis at Transplant</b>	Coronary Artery Disease	0	0.0	5222	41.4
	Cardiomyopathy	0	0.0	5779	45.8
	Eisenmenger's Syndrome/Congenital	1	100.0	933	7.4
	Valvular Heart Disease	0	0.0	476	3.8
	Other Diagnosis	0	0.0	183	1.4
	Not Reported	0	0.0	34	0.3
<b>Medical Condition at Transplant</b>	Not Hospitalized	1	100.0	5606	44.4
	Hospitalized	0	0.0	986	7.8
	In ICU	0	0.0	6019	47.7
	Not Reported	0	0.0	16	0.1
<b>Cold Ischemia Time</b>	Up to 2 hrs	0	0.0	3458	27.4
	> 2 - 2.5 hrs	0	0.0	2271	18.0
	> 2.5 - 3 hrs	0	0.0	2408	19.1
	> 3 - 3.5 hrs	0	0.0	1949	15.4
	> 3.5 hrs	0	0.0	2453	19.4
	Not Reported	1	100.0	88	0.7
<b>Year of Transplant</b>	1988	0	0.0	1649	13.1
	1989	0	0.0	1677	13.3
	1990	0	0.0	2071	16.4
	1991	1	100.0	2098	16.6
	1992	0	0.0	2145	17.0
	1993	0	0.0	2266	17.9
	1994	0	0.0	721	5.7

Source: UNOS OPTN/Scientific Registry data.



## Heart Transplants: January 1, 1988 - April 30, 1994

Survival Report for St Luke's Episcopal Hospital - Houston TX  
Provider Number 450193 (TXHI)Graft Survival

	Era 1: 1/1/88-4/30/92			Era 2: 5/1/92-4/30/94			Overall: 1/1/88-4/30/94						
Time Point	No. of TX	Act. Rate (%)	Exp. Rate (%)	No. of TX	Act. Rate (%)	Exp. Rate (%)	No. of TX	No. <sup>1</sup> w/CFU	No. Failed	Act. Rate (%)	Exp. Rate (%)	Diff. (%)	p- <sup>2</sup> value
1 Month	225	89.8	91.5	84	86.9	91.3	309	309	34	89.0	91.4	-2.4	0.11
1 Year	225	79.5	81.7	84	78.2	81.8	309	305	64	79.1	81.7	-2.6	0.23
Cond. <sup>3</sup> 3 Years	176	88.5	90.1				176	171	20	88.5	90.1	-1.6	0.47
3 Years <sup>3</sup>		70.4	73.6										

Patient Survival

	Era 1: 1/1/88-4/30/92			Era 2: 5/1/92-4/30/94			Overall: 1/1/88-4/30/94						
Time Point	No. of Pts. <sup>4</sup>	Act. Rate (%)	Exp. Rate (%)	No. of Pts. <sup>4</sup>	Act. Rate (%)	Exp. Rate (%)	No. of Pts. <sup>4</sup>	No. <sup>1,5</sup> w/CFU	No. <sup>5</sup> Died	Act. Rate (%)	Exp. Rate (%)	Diff. (%)	p- <sup>2</sup> value
1 Month	221	89.8	92.0	84	86.9	91.8	305	305.0	33.5	89.0	91.9	-2.9	0.05
1 Year	221	80.2	82.6	84	78.2	82.5	305	301.0	61.5	79.7	82.6	-2.9	0.17
Cond. <sup>3</sup> 3 Years	175	88.7	90.6				175	170.0	19.5	88.7	90.6	-1.9	0.39
3 Years <sup>3</sup>		71.2	74.8										

Notes: <sup>1</sup> No. with complete follow-up (CFU) is the total of the number of patients (grafts) whose status was known during the specified time interval.

<sup>2</sup> A p-value followed by an \* indicates that the difference is statistically significant at the 0.05 level.

<sup>3</sup> Conditional 3 year survival rates are the survival rates conditional on survival at 1 year. These are computed based on transplants between 1/1/88 and 4/30/92. Three year survival rates are computed by multiplying the 1 year and the conditional 3 year survival rates.

<sup>4</sup> The numbers of patients in Era 1 and Era 2 do not necessarily add up to the number of patients in the overall period, due to repeat transplants in different eras for some patients.

<sup>5</sup> No. w/CFU or No. Died may be fractional if patients received more than one transplant at the program.

Source: UNOS OPTN/Scientific Registry data.

**Heart Transplants: January 1, 1988 - April 30, 1994**  
**Donor and Recipient Characteristics: Program and National Frequencies**

**St Luke's Episcopal Hospital - Houston TX**  
**Provider Number 450193 (TXHI)**

		----- Program -----		--- National ---	
		Number	%	Number	%
<b>Total Transplants and Percentages</b>		<b>309</b>	<b>100.0</b>	<b>12627</b>	<b>100.0</b>
<b>Donor Age</b>	0-5	23	7.4	799	6.3
	6-10	11	3.6	274	2.2
	11-17	51	16.5	2029	16.1
	18-49	212	68.6	8923	70.7
	50-64	11	3.6	589	4.7
	65+	1	0.3	12	0.1
	Not Reported	0	0.0	1	0.0
<b>Donor Gender</b>	Female	83	26.9	3728	29.5
	Male	226	73.1	8899	70.5
<b>Donor Race</b>	White	228	73.8	10036	79.5
	Black	37	12.0	1263	10.0
	Hispanic	40	12.9	1143	9.1
	Asian	3	1.0	90	0.7
	Other	1	0.3	87	0.7
	Not Reported	0	0.0	8	0.1
<b>Recipient Age</b>	<1	8	2.6	549	4.3
	1-10	23	7.4	431	3.4
	11-17	13	4.2	358	2.8
	18-49	122	39.5	4493	35.6
	50-64	128	41.4	6373	50.5
	65+	15	4.9	423	3.3
<b>Recipient Gender</b>	Female	72	23.3	2761	21.9
	Male	237	76.7	9866	78.1
<b>Recipient Race</b>	White	238	77.0	10504	83.2
	Black	15	4.9	1206	9.6
	Hispanic	45	14.6	570	4.5
	Asian	4	1.3	125	1.0
	Other	6	1.9	216	1.7
	Not Reported	1	0.3	6	0.0

		----- Program -----		--- National ---	
		Number	%	Number	%
<b>Previous Heart Transplant</b>	No	302	97.7	12231	96.9
	Yes	7	2.3	344	2.7
	Not Reported	0	0.0	52	0.4
<b>On Ventilator at Transplant</b>	No	290	93.9	11892	94.2
	Yes	15	4.9	663	5.3
	Not Reported	4	1.3	72	0.6
<b>On VAD at Transplant</b>	No	288	93.2	12187	96.5
	Yes	17	5.5	366	2.9
	Not Reported	4	1.3	74	0.6
<b>On IABP at Transplant</b>	No	259	83.8	11754	93.1
	Yes	46	14.9	801	6.3
	Not Reported	4	1.3	72	0.6
<b>Diagnosis at Transplant</b>	Coronary Artery Disease	121	39.2	5222	41.4
	Cardiomyopathy	141	45.6	5779	45.8
	Eisenmenger's Syndrome/Congenital	26	8.4	933	7.4
	Valvular Heart Disease	13	4.2	476	3.8
	Other Diagnosis	8	2.6	183	1.4
	Not Reported	0	0.0	34	0.3
<b>Medical Condition at Transplant</b>	Not Hospitalized	137	44.3	5606	44.4
	Hospitalized	28	9.1	986	7.8
	In ICU	144	46.6	6019	47.7
	Not Reported	0	0.0	16	0.1
<b>Cold Ischemia Time</b>	Up to 2 hrs	97	31.4	3458	27.4
	> 2 - 2.5 hrs	47	15.2	2271	18.0
	> 2.5 - 3 hrs	41	13.3	2408	19.1
	> 3 - 3.5 hrs	44	14.2	1949	15.4
	> 3.5 hrs	78	25.2	2453	19.4
	Not Reported	2	0.6	88	0.7
<b>Year of Transplant</b>	1988	59	19.1	1649	13.1
	1989	59	19.1	1677	13.3
	1990	46	14.9	2071	16.4
	1991	47	15.2	2098	16.6
	1992	39	12.6	2145	17.0
	1993	39	12.6	2266	17.9
	1994	20	6.5	721	5.7

Source: UNOS OPTN/Scientific Registry data.

**Response From: St. Luke's Episcopal Hospital  
6720 Bertner, Houston, TX 77030  
Provider Number 450193 (TXHI)**

May 9, 1997

After detailed review of center specific data survival statistics, it appears that comments by centers are more or less an additional piece of paper to "justify" fairness in this process. With the database as large as UNOS, better assessment of the risk factors should be available and then applied to these analyses. Additionally, literature provides further insight for these parameters. If the suggestions of the centers are not considered and further adjustment of risk factors done, the narrative does not provide enough space or time to give an adequate response.

O. H. Frazier, M.D.  
Chief, Cardiopulmonary Transplantation



## Heart Transplants: January 1, 1988 - April 30, 1994

Survival Report for San Antonio Community Hospital - San Antonio TX  
Provider Number 450631 (TXHS)Graft Survival

	Era 1: 1/1/88-4/30/92			Era 2: 5/1/92-4/30/94			Overall: 1/1/88-4/30/94						
Time Point	No. of TX	Act. Rate (%)	Exp. Rate (%)	No. of TX	Act. Rate (%)	Exp. Rate (%)	No. of TX	No. <sup>1</sup> w/CFU	No. Failed	Act. Rate (%)	Exp. Rate (%)	Diff. (%)	p- <sup>2</sup> value
1 Month	59	86.4	89.5	32	81.3	91.8	91	91	14	84.6	90.3	-5.7	0.06
1 Year	59	72.9	78.2	32	68.8	79.9	91	91	26	71.4	78.8	-7.4	0.07
Cond. <sup>3</sup> 3 Years	43	79.1	88.7				43	43	9	79.1	88.7	-9.6	0.04*
3 Years <sup>3</sup>		57.6	69.4										

Patient Survival

	Era 1: 1/1/88-4/30/92			Era 2: 5/1/92-4/30/94			Overall: 1/1/88-4/30/94						
Time Point	No. of Pts. <sup>4</sup>	Act. Rate (%)	Exp. Rate (%)	No. of Pts. <sup>4</sup>	Act. Rate (%)	Exp. Rate (%)	No. of Pts. <sup>4</sup>	No. <sup>1,5</sup> w/CFU	No. <sup>5</sup> Died	Act. Rate (%)	Exp. Rate (%)	Diff. (%)	p- <sup>2</sup> value
1 Month	57	89.4	90.6	30	85.0	92.7	87	86.5	10.5	87.9	91.4	-3.5	0.23
1 Year	57	77.0	79.7	30	73.3	81.8	87	86.5	21.0	75.7	80.5	-4.7	0.25
Cond. <sup>3</sup> 3 Years	44	77.3	89.1				44	44.0	10.0	77.3	89.1	-11.8	0.01*
3 Years <sup>3</sup>		59.5	71.0										

Notes: <sup>1</sup>. No. with complete follow-up (CFU) is the total of the number of patients (grafts) whose status was known during the specified time interval.

<sup>2</sup>. A p-value followed by an \* indicates that the difference is statistically significant at the 0.05 level.

<sup>3</sup>. Conditional 3 year survival rates are the survival rates conditional on survival at 1 year. These are computed based on transplants between 1/1/88 and 4/30/92. Three year survival rates are computed by multiplying the 1 year and the conditional 3 year survival rates.

<sup>4</sup>. The numbers of patients in Era 1 and Era 2 do not necessarily add up to the number of patients in the overall period, due to repeat transplants in different eras for some patients.

<sup>5</sup>. No. w/CFU or No. Died may be fractional if patients received more than one transplant at the program.

Source: UNOS OPTN/Scientific Registry data.

**Heart Transplants: January 1, 1988 - April 30, 1994**  
**Donor and Recipient Characteristics: Program and National Frequencies**

**San Antonio Community Hospital - San Antonio TX**  
**Provider Number 450631 (TXHS)**

		----- Program -----		--- National ---	
		Number	%	Number	%
<b>Total Transplants and Percentages</b>		<b>91</b>	<b>100.0</b>	<b>12627</b>	<b>100.0</b>
<b>Donor Age</b>	0-5	0	0.0	799	6.3
	6-10	1	1.1	274	2.2
	11-17	18	19.8	2029	16.1
	18-49	61	67.0	8923	70.7
	50-64	11	12.1	589	4.7
	65+	0	0.0	12	0.1
	Not Reported	0	0.0	1	0.0
<b>Donor Gender</b>	Female	29	31.9	3728	29.5
	Male	62	68.1	8899	70.5
<b>Donor Race</b>	White	53	58.2	10036	79.5
	Black	5	5.5	1263	10.0
	Hispanic	29	31.9	1143	9.1
	Asian	0	0.0	90	0.7
	Other	4	4.4	87	0.7
	Not Reported	0	0.0	8	0.1
<b>Recipient Age</b>	<1	0	0.0	549	4.3
	1-10	0	0.0	431	3.4
	11-17	1	1.1	358	2.8
	18-49	36	39.6	4493	35.6
	50-64	47	51.6	6373	50.5
	65+	7	7.7	423	3.3
<b>Recipient Gender</b>	Female	14	15.4	2761	21.9
	Male	77	84.6	9866	78.1
<b>Recipient Race</b>	White	59	64.8	10504	83.2
	Black	8	8.8	1206	9.6
	Hispanic	24	26.4	570	4.5
	Asian	0	0.0	125	1.0
	Other	0	0.0	216	1.7
	Not Reported	0	0.0	6	0.0

		----- Program -----		--- National ---	
		Number	%	Number	%
<b>Previous Heart Transplant</b>	No	83	91.2	12231	96.9
	Yes	8	8.8	344	2.7
	Not Reported	0	0.0	52	0.4
<b>On Ventilator at Transplant</b>	No	86	94.5	11892	94.2
	Yes	5	5.5	663	5.3
	Not Reported	0	0.0	72	0.6
<b>On VAD at Transplant</b>	No	83	91.2	12187	96.5
	Yes	8	8.8	366	2.9
	Not Reported	0	0.0	74	0.6
<b>On IABP at Transplant</b>	No	85	93.4	11754	93.1
	Yes	6	6.6	801	6.3
	Not Reported	0	0.0	72	0.6
<b>Diagnosis at Transplant</b>	Coronary Artery Disease	55	60.4	5222	41.4
	Cardiomyopathy	29	31.9	5779	45.8
	Eisenmenger's Syndrome/Congenital	2	2.2	933	7.4
	Valvular Heart Disease	2	2.2	476	3.8
	Other Diagnosis	3	3.3	183	1.4
	Not Reported	0	0.0	34	0.3
<b>Medical Condition at Transplant</b>	Not Hospitalized	47	51.6	5606	44.4
	Hospitalized	4	4.4	986	7.8
	In ICU	40	44.0	6019	47.7
	Not Reported	0	0.0	16	0.1
<b>Cold Ischemia Time</b>	Up to 2 hrs	43	47.3	3458	27.4
	> 2 - 2.5 hrs	11	12.1	2271	18.0
	> 2.5 - 3 hrs	16	17.6	2408	19.1
	> 3 - 3.5 hrs	11	12.1	1949	15.4
	> 3.5 hrs	10	11.0	2453	19.4
	Not Reported	0	0.0	88	0.7
<b>Year of Transplant</b>	1988	13	14.3	1649	13.1
	1989	11	12.1	1677	13.3
	1990	12	13.2	2071	16.4
	1991	13	14.3	2098	16.6
	1992	20	22.0	2145	17.0
	1993	17	18.7	2266	17.9
	1994	5	5.5	721	5.7

Source: UNOS OPTN/Scientific Registry data.



## Heart Transplants: January 1, 1988 - April 30, 1994

Survival Report for University of Texas-Medical Branch - Galveston TX  
Provider Number 450018 (TXJS)Graft Survival

	Era 1: 1/1/88-4/30/92			Era 2: 5/1/92-4/30/94			Overall: 1/1/88-4/30/94						
Time Point	No. of TX	Act. Rate (%)	Exp. Rate (%)	No. of TX	Act. Rate (%)	Exp. Rate (%)	No. of TX	No. <sup>1</sup> w/CFU	No. Failed	Act. Rate (%)	Exp. Rate (%)	Diff. (%)	p- <sup>2</sup> value
1 Month				11	90.9	90.9	11	11	1	90.9	90.9	0.0	1.00
1 Year				11	63.6	79.9	11	11	4	63.6	79.9	-16.3	0.17
Cond. <sup>3</sup> 3 Years													
3 Years <sup>3</sup>													

Patient Survival

	Era 1: 1/1/88-4/30/92			Era 2: 5/1/92-4/30/94			Overall: 1/1/88-4/30/94						
Time Point	No. of Pts. <sup>4</sup>	Act. Rate (%)	Exp. Rate (%)	No. of Pts. <sup>4</sup>	Act. Rate (%)	Exp. Rate (%)	No. of Pts. <sup>4</sup>	No. <sup>1,5</sup> w/CFU	No. <sup>5</sup> Died	Act. Rate (%)	Exp. Rate (%)	Diff. (%)	p- <sup>2</sup> value
1 Month				11	90.9	91.4	11	11.0	1.0	90.9	91.4	-0.5	0.95
1 Year				11	63.6	80.6	11	11.0	4.0	63.6	80.6	-16.9	0.14
Cond. <sup>3</sup> 3 Years													
3 Years <sup>3</sup>													

Notes: <sup>1</sup> No. with complete follow-up (CFU) is the total of the number of patients (grafts) whose status was known during the specified time interval.

<sup>2</sup> A p-value followed by an \* indicates that the difference is statistically significant at the 0.05 level.

<sup>3</sup> Conditional 3 year survival rates are the survival rates conditional on survival at 1 year. These are computed based on transplants between 1/1/88 and 4/30/92. Three year survival rates are computed by multiplying the 1 year and the conditional 3 year survival rates.

<sup>4</sup> The numbers of patients in Era 1 and Era 2 do not necessarily add up to the number of patients in the overall period, due to repeat transplants in different eras for some patients.

<sup>5</sup> No. w/CFU or No. Died may be fractional if patients received more than one transplant at the program.

Source: UNOS OPTN/Scientific Registry data.

**Heart Transplants: January 1, 1988 - April 30, 1994**  
**Donor and Recipient Characteristics: Program and National Frequencies**

**University of Texas-Medical Branch - Galveston TX**  
**Provider Number 450018 (TXJS)**

		----- Program -----		--- National ---	
		Number	%	Number	%
<b>Total Transplants and Percentages</b>		<b>11</b>	<b>100.0</b>	<b>12627</b>	<b>100.0</b>
<b>Donor Age</b>	0-5	0	0.0	799	6.3
	6-10	1	9.1	274	2.2
	11-17	2	18.2	2029	16.1
	18-49	7	63.6	8923	70.7
	50-64	1	9.1	589	4.7
	65+	0	0.0	12	0.1
	Not Reported	0	0.0	1	0.0
<b>Donor Gender</b>	Female	5	45.5	3728	29.5
	Male	6	54.5	8899	70.5
<b>Donor Race</b>	White	7	63.6	10036	79.5
	Black	2	18.2	1263	10.0
	Hispanic	2	18.2	1143	9.1
	Asian	0	0.0	90	0.7
	Other	0	0.0	87	0.7
	Not Reported	0	0.0	8	0.1
<b>Recipient Age</b>	<1	0	0.0	549	4.3
	1-10	0	0.0	431	3.4
	11-17	0	0.0	358	2.8
	18-49	6	54.5	4493	35.6
	50-64	4	36.4	6373	50.5
	65+	1	9.1	423	3.3
<b>Recipient Gender</b>	Female	3	27.3	2761	21.9
	Male	8	72.7	9866	78.1
<b>Recipient Race</b>	White	8	72.7	10504	83.2
	Black	2	18.2	1206	9.6
	Hispanic	0	0.0	570	4.5
	Asian	0	0.0	125	1.0
	Other	1	9.1	216	1.7
	Not Reported	0	0.0	6	0.0

		----- Program -----		--- National ---	
		Number	%	Number	%
<b>Previous Heart Transplant</b>	No	10	90.9	12231	96.9
	Yes	1	9.1	344	2.7
	Not Reported	0	0.0	52	0.4
<b>On Ventilator at Transplant</b>	No	10	90.9	11892	94.2
	Yes	1	9.1	663	5.3
	Not Reported	0	0.0	72	0.6
<b>On VAD at Transplant</b>	No	11	100.0	12187	96.5
	Yes	0	0.0	366	2.9
	Not Reported	0	0.0	74	0.6
<b>On IABP at Transplant</b>	No	11	100.0	11754	93.1
	Yes	0	0.0	801	6.3
	Not Reported	0	0.0	72	0.6
<b>Diagnosis at Transplant</b>	Coronary Artery Disease	6	54.5	5222	41.4
	Cardiomyopathy	3	27.3	5779	45.8
	Eisenmenger's Syndrome/Congenital	0	0.0	933	7.4
	Valvular Heart Disease	1	9.1	476	3.8
	Other Diagnosis	1	9.1	183	1.4
	Not Reported	0	0.0	34	0.3
<b>Medical Condition at Transplant</b>	Not Hospitalized	6	54.5	5606	44.4
	Hospitalized	0	0.0	986	7.8
	In ICU	5	45.5	6019	47.7
	Not Reported	0	0.0	16	0.1
<b>Cold Ischemia Time</b>	Up to 2 hrs	2	18.2	3458	27.4
	> 2 - 2.5 hrs	1	9.1	2271	18.0
	> 2.5 - 3 hrs	1	9.1	2408	19.1
	> 3 - 3.5 hrs	2	18.2	1949	15.4
	> 3.5 hrs	5	45.5	2453	19.4
	Not Reported	0	0.0	88	0.7
<b>Year of Transplant</b>	1988	0	0.0	1649	13.1
	1989	0	0.0	1677	13.3
	1990	0	0.0	2071	16.4
	1991	0	0.0	2098	16.6
	1992	0	0.0	2145	17.0
	1993	10	90.9	2266	17.9
	1994	1	9.1	721	5.7

Source: UNOS OPTN/Scientific Registry data.

## Heart Transplants: January 1, 1988 - April 30, 1994

Survival Report for Methodist Hospital - Lubbock TX  
Provider Number 450457 (TXLM)Graft Survival

	Era 1: 1/1/88-4/30/92			Era 2: 5/1/92-4/30/94			Overall: 1/1/88-4/30/94						
Time Point	No. of TX	Act. Rate (%)	Exp. Rate (%)	No. of TX	Act. Rate (%)	Exp. Rate (%)	No. of TX	No. <sup>1</sup> w/CFU	No. Failed	Act. Rate (%)	Exp. Rate (%)	Diff. (%)	p- <sup>2</sup> value
1 Month	6	100.0	92.1	22	72.7	91.7	28	28	6	78.6	91.8	-13.2	0.01*
1 Year	6	83.3	82.4	22	68.1	82.8	28	27	8	71.4	82.7	-11.3	0.11
Cond. <sup>3</sup> 3 Years	5	60.0	87.7				5	5	2	60.0	87.7	-27.7	0.12
3 Years <sup>3</sup>		50.0	72.3										

Patient Survival

	Era 1: 1/1/88-4/30/92			Era 2: 5/1/92-4/30/94			Overall: 1/1/88-4/30/94						
Time Point	No. of Pts. <sup>4</sup>	Act. Rate (%)	Exp. Rate (%)	No. of Pts. <sup>4</sup>	Act. Rate (%)	Exp. Rate (%)	No. of Pts. <sup>4</sup>	No. <sup>1,5</sup> w/CFU	No. <sup>5</sup> Died	Act. Rate (%)	Exp. Rate (%)	Diff. (%)	p- <sup>2</sup> value
1 Month	6	100.0	92.5	22	72.7	92.1	28	28.0	6.0	78.6	92.2	-13.6	<0.01*
1 Year	6	83.3	83.1	22	68.1	83.5	28	27.0	8.0	71.4	83.4	-12.0	0.08
Cond. <sup>3</sup> 3 Years	5	60.0	88.5				5	5.0	2.0	60.0	88.5	-28.5	0.10
3 Years <sup>3</sup>		50.0	73.6										

Notes: <sup>1</sup> No. with complete follow-up (CFU) is the total of the number of patients (grafts) whose status was known during the specified time interval.

<sup>2</sup> A p-value followed by an \* indicates that the difference is statistically significant at the 0.05 level.

<sup>3</sup> Conditional 3 year survival rates are the survival rates conditional on survival at 1 year. These are computed based on transplants between 1/1/88 and 4/30/92. Three year survival rates are computed by multiplying the 1 year and the conditional 3 year survival rates.

<sup>4</sup> The numbers of patients in Era 1 and Era 2 do not necessarily add up to the number of patients in the overall period, due to repeat transplants in different eras for some patients.

<sup>5</sup> No. w/CFU or No. Died may be fractional if patients received more than one transplant at the program.

Source: UNOS OPTN/Scientific Registry data.

**Heart Transplants: January 1, 1988 - April 30, 1994**  
**Donor and Recipient Characteristics: Program and National Frequencies**

**Methodist Hospital - Lubbock TX**  
**Provider Number 450457 (TXLM)**

		----- Program -----		--- National ---	
		Number	%	Number	%
<b>Total Transplants and Percentages</b>		<b>28</b>	<b>100.0</b>	<b>12627</b>	<b>100.0</b>
<b>Donor Age</b>	0-5	0	0.0	799	6.3
	6-10	0	0.0	274	2.2
	11-17	3	10.7	2029	16.1
	18-49	22	78.6	8923	70.7
	50-64	3	10.7	589	4.7
	65+	0	0.0	12	0.1
	Not Reported	0	0.0	1	0.0
<b>Donor Gender</b>	Female	11	39.3	3728	29.5
	Male	17	60.7	8899	70.5
<b>Donor Race</b>	White	21	75.0	10036	79.5
	Black	0	0.0	1263	10.0
	Hispanic	7	25.0	1143	9.1
	Asian	0	0.0	90	0.7
	Other	0	0.0	87	0.7
	Not Reported	0	0.0	8	0.1
<b>Recipient Age</b>	<1	0	0.0	549	4.3
	1-10	0	0.0	431	3.4
	11-17	0	0.0	358	2.8
	18-49	15	53.6	4493	35.6
	50-64	12	42.9	6373	50.5
	65+	1	3.6	423	3.3
<b>Recipient Gender</b>	Female	9	32.1	2761	21.9
	Male	19	67.9	9866	78.1
<b>Recipient Race</b>	White	20	71.4	10504	83.2
	Black	1	3.6	1206	9.6
	Hispanic	7	25.0	570	4.5
	Asian	0	0.0	125	1.0
	Other	0	0.0	216	1.7
	Not Reported	0	0.0	6	0.0

		----- Program -----		--- National ---	
		Number	%	Number	%
<b>Previous Heart Transplant</b>	No	28	100.0	12231	96.9
	Yes	0	0.0	344	2.7
	Not Reported	0	0.0	52	0.4
<b>On Ventilator at Transplant</b>	No	26	92.9	11892	94.2
	Yes	2	7.1	663	5.3
	Not Reported	0	0.0	72	0.6
<b>On VAD at Transplant</b>	No	28	100.0	12187	96.5
	Yes	0	0.0	366	2.9
	Not Reported	0	0.0	74	0.6
<b>On IABP at Transplant</b>	No	27	96.4	11754	93.1
	Yes	1	3.6	801	6.3
	Not Reported	0	0.0	72	0.6
<b>Diagnosis at Transplant</b>	Coronary Artery Disease	18	64.3	5222	41.4
	Cardiomyopathy	10	35.7	5779	45.8
	Eisenmenger's Syndrome/Congenital	0	0.0	933	7.4
	Valvular Heart Disease	0	0.0	476	3.8
	Other Diagnosis	0	0.0	183	1.4
	Not Reported	0	0.0	34	0.3
<b>Medical Condition at Transplant</b>	Not Hospitalized	12	42.9	5606	44.4
	Hospitalized	0	0.0	986	7.8
	In ICU	16	57.1	6019	47.7
	Not Reported	0	0.0	16	0.1
<b>Cold Ischemia Time</b>	Up to 2 hrs	10	35.7	3458	27.4
	> 2 - 2.5 hrs	4	14.3	2271	18.0
	> 2.5 - 3 hrs	9	32.1	2408	19.1
	> 3 - 3.5 hrs	2	7.1	1949	15.4
	> 3.5 hrs	3	10.7	2453	19.4
	Not Reported	0	0.0	88	0.7
<b>Year of Transplant</b>	1988	0	0.0	1649	13.1
	1989	0	0.0	1677	13.3
	1990	0	0.0	2071	16.4
	1991	4	14.3	2098	16.6
	1992	10	35.7	2145	17.0
	1993	11	39.3	2266	17.9
	1994	3	10.7	721	5.7

Source: UNOS OPTN/Scientific Registry data.

## Heart Transplants: January 1, 1988 - April 30, 1994

Survival Report for Methodist Medical Center - Dallas TX  
Provider Number 450051 (TXMC)Graft Survival

	Era 1: 1/1/88-4/30/92			Era 2: 5/1/92-4/30/94			Overall: 1/1/88-4/30/94						
Time Point	No. of TX	Act. Rate (%)	Exp. Rate (%)	No. of TX	Act. Rate (%)	Exp. Rate (%)	No. of TX	No. <sup>1</sup> w/CFU	No. Failed	Act. Rate (%)	Exp. Rate (%)	Diff. (%)	p- <sup>2</sup> value
1 Month	39	92.3	91.8	21	95.2	92.2	60	60	4	93.3	91.9	1.4	0.68
1 Year	39	84.6	81.9	21	90.5	81.3	60	60	8	86.7	81.7	5.0	0.30
Cond. <sup>3</sup> 3 Years	33	87.7	90.9				33	32	4	87.7	90.9	-3.2	0.52
3 Years <sup>3</sup>		74.2	74.5										

Patient Survival

	Era 1: 1/1/88-4/30/92			Era 2: 5/1/92-4/30/94			Overall: 1/1/88-4/30/94						
Time Point	No. of Pts. <sup>4</sup>	Act. Rate (%)	Exp. Rate (%)	No. of Pts. <sup>4</sup>	Act. Rate (%)	Exp. Rate (%)	No. of Pts. <sup>4</sup>	No. <sup>1,5</sup> w/CFU	No. <sup>5</sup> Died	Act. Rate (%)	Exp. Rate (%)	Diff. (%)	p- <sup>2</sup> value
1 Month	38	93.3	92.8	21	95.1	92.7	58	58.0	3.5	94.0	92.8	1.2	0.72
1 Year	38	86.7	83.5	21	90.2	82.4	58	58.0	7.0	87.9	83.1	4.8	0.31
Cond. <sup>3</sup> 3 Years	33	90.8	91.3				33	32.0	3.0	90.8	91.3	-0.5	0.92
3 Years <sup>3</sup>		78.7	76.2										

Notes: <sup>1</sup> No. with complete follow-up (CFU) is the total of the number of patients (grafts) whose status was known during the specified time interval.

<sup>2</sup> A p-value followed by an \* indicates that the difference is statistically significant at the 0.05 level.

<sup>3</sup> Conditional 3 year survival rates are the survival rates conditional on survival at 1 year. These are computed based on transplants between 1/1/88 and 4/30/92. Three year survival rates are computed by multiplying the 1 year and the conditional 3 year survival rates.

<sup>4</sup> The numbers of patients in Era 1 and Era 2 do not necessarily add up to the number of patients in the overall period, due to repeat transplants in different eras for some patients.

<sup>5</sup> No. w/CFU or No. Died may be fractional if patients received more than one transplant at the program.

Source: UNOS OPTN/Scientific Registry data.



**Heart Transplants: January 1, 1988 - April 30, 1994**  
**Donor and Recipient Characteristics: Program and National Frequencies**

**Methodist Medical Center - Dallas TX**  
**Provider Number 450051 (TXMC)**

		----- Program -----		--- National ---	
		Number	%	Number	%
<b>Total Transplants and Percentages</b>		<b>60</b>	<b>100.0</b>	<b>12627</b>	<b>100.0</b>
<b>Donor Age</b>	0-5	0	0.0	799	6.3
	6-10	0	0.0	274	2.2
	11-17	19	31.7	2029	16.1
	18-49	41	68.3	8923	70.7
	50-64	0	0.0	589	4.7
	65+	0	0.0	12	0.1
	Not Reported	0	0.0	1	0.0
<b>Donor Gender</b>	Female	9	15.0	3728	29.5
	Male	51	85.0	8899	70.5
<b>Donor Race</b>	White	42	70.0	10036	79.5
	Black	7	11.7	1263	10.0
	Hispanic	9	15.0	1143	9.1
	Asian	1	1.7	90	0.7
	Other	1	1.7	87	0.7
	Not Reported	0	0.0	8	0.1
<b>Recipient Age</b>	<1	0	0.0	549	4.3
	1-10	0	0.0	431	3.4
	11-17	0	0.0	358	2.8
	18-49	21	35.0	4493	35.6
	50-64	37	61.7	6373	50.5
	65+	2	3.3	423	3.3
<b>Recipient Gender</b>	Female	11	18.3	2761	21.9
	Male	49	81.7	9866	78.1
<b>Recipient Race</b>	White	54	90.0	10504	83.2
	Black	5	8.3	1206	9.6
	Hispanic	1	1.7	570	4.5
	Asian	0	0.0	125	1.0
	Other	0	0.0	216	1.7
	Not Reported	0	0.0	6	0.0

		----- Program -----		--- National ---	
		Number	%	Number	%
<b>Previous Heart Transplant</b>	No	57	95.0	12231	96.9
	Yes	3	5.0	344	2.7
	Not Reported	0	0.0	52	0.4
<b>On Ventilator at Transplant</b>	No	53	88.3	11892	94.2
	Yes	7	11.7	663	5.3
	Not Reported	0	0.0	72	0.6
<b>On VAD at Transplant</b>	No	60	100.0	12187	96.5
	Yes	0	0.0	366	2.9
	Not Reported	0	0.0	74	0.6
<b>On IABP at Transplant</b>	No	53	88.3	11754	93.1
	Yes	7	11.7	801	6.3
	Not Reported	0	0.0	72	0.6
<b>Diagnosis at Transplant</b>	Coronary Artery Disease	29	48.3	5222	41.4
	Cardiomyopathy	26	43.3	5779	45.8
	Eisenmenger's Syndrome/Congenital	0	0.0	933	7.4
	Valvular Heart Disease	3	5.0	476	3.8
	Other Diagnosis	2	3.3	183	1.4
	Not Reported	0	0.0	34	0.3
<b>Medical Condition at Transplant</b>	Not Hospitalized	24	40.0	5606	44.4
	Hospitalized	4	6.7	986	7.8
	In ICU	32	53.3	6019	47.7
	Not Reported	0	0.0	16	0.1
<b>Cold Ischemia Time</b>	Up to 2 hrs	25	41.7	3458	27.4
	> 2 - 2.5 hrs	7	11.7	2271	18.0
	> 2.5 - 3 hrs	7	11.7	2408	19.1
	> 3 - 3.5 hrs	7	11.7	1949	15.4
	> 3.5 hrs	14	23.3	2453	19.4
	Not Reported	0	0.0	88	0.7
<b>Year of Transplant</b>	1988	15	25.0	1649	13.1
	1989	10	16.7	1677	13.3
	1990	6	10.0	2071	16.4
	1991	7	11.7	2098	16.6
	1992	11	18.3	2145	17.0
	1993	9	15.0	2266	17.9
	1994	2	3.3	721	5.7

Source: UNOS OPTN/Scientific Registry data.

## Heart Transplants: January 1, 1988 - April 30, 1994

Survival Report for The Methodist Hospital - Houston TX  
Provider Number 450358 (TXMH)Graft Survival

	Era 1: 1/1/88-4/30/92			Era 2: 5/1/92-4/30/94			Overall: 1/1/88-4/30/94						
Time Point	No. of TX	Act. Rate (%)	Exp. Rate (%)	No. of TX	Act. Rate (%)	Exp. Rate (%)	No. of TX	No. <sup>1</sup> w/CFU	No. Failed	Act. Rate (%)	Exp. Rate (%)	Diff. (%)	p- <sup>2</sup> value
1 Month	150	84.0	91.2	50	90.0	92.0	200	200	29	85.5	91.4	-5.9	<0.01*
1 Year	150	68.7	80.4	50	84.0	82.0	200	200	55	72.5	80.8	-8.3	<0.01*
Cond. <sup>3</sup> 3 Years	103	88.3	89.3				103	103	12	88.3	89.3	-1.0	0.75
3 Years <sup>3</sup>		60.7	71.8										

Patient Survival

	Era 1: 1/1/88-4/30/92			Era 2: 5/1/92-4/30/94			Overall: 1/1/88-4/30/94						
Time Point	No. of Pts. <sup>4</sup>	Act. Rate (%)	Exp. Rate (%)	No. of Pts. <sup>4</sup>	Act. Rate (%)	Exp. Rate (%)	No. of Pts. <sup>4</sup>	No. <sup>1,5</sup> w/CFU	No. <sup>5</sup> Died	Act. Rate (%)	Exp. Rate (%)	Diff. (%)	p- <sup>2</sup> value
1 Month	147	85.7	92.0	50	90.0	92.4	197	197.0	26.0	86.8	92.1	-5.3	<0.01*
1 Year	147	70.1	81.4	50	84.0	82.4	197	197.0	52.0	73.6	81.6	-8.0	<0.01*
Cond. <sup>3</sup> 3 Years	103	88.3	89.8				103	103.0	12.0	88.3	89.8	-1.5	0.61
3 Years <sup>3</sup>		61.9	73.1										

Notes: <sup>1</sup> No. with complete follow-up (CFU) is the total of the number of patients (grafts) whose status was known during the specified time interval.

<sup>2</sup> A p-value followed by an \* indicates that the difference is statistically significant at the 0.05 level.

<sup>3</sup> Conditional 3 year survival rates are the survival rates conditional on survival at 1 year. These are computed based on transplants between 1/1/88 and 4/30/92. Three year survival rates are computed by multiplying the 1 year and the conditional 3 year survival rates.

<sup>4</sup> The numbers of patients in Era 1 and Era 2 do not necessarily add up to the number of patients in the overall period, due to repeat transplants in different eras for some patients.

<sup>5</sup> No. w/CFU or No. Died may be fractional if patients received more than one transplant at the program.

Source: UNOS OPTN/Scientific Registry data.

**Heart Transplants: January 1, 1988 - April 30, 1994**  
**Donor and Recipient Characteristics: Program and National Frequencies**

**The Methodist Hospital - Houston TX**  
**Provider Number 450358 (TXMH)**

		----- Program -----		--- National ---	
		Number	%	Number	%
<b>Total Transplants and Percentages</b>		<b>200</b>	<b>100.0</b>	<b>12627</b>	<b>100.0</b>
<b>Donor Age</b>	0-5	0	0.0	799	6.3
	6-10	0	0.0	274	2.2
	11-17	36	18.0	2029	16.1
	18-49	154	77.0	8923	70.7
	50-64	9	4.5	589	4.7
	65+	1	0.5	12	0.1
	Not Reported	0	0.0	1	0.0
<b>Donor Gender</b>	Female	66	33.0	3728	29.5
	Male	134	67.0	8899	70.5
<b>Donor Race</b>	White	154	77.0	10036	79.5
	Black	18	9.0	1263	10.0
	Hispanic	27	13.5	1143	9.1
	Asian	0	0.0	90	0.7
	Other	1	0.5	87	0.7
	Not Reported	0	0.0	8	0.1
<b>Recipient Age</b>	<1	0	0.0	549	4.3
	1-10	0	0.0	431	3.4
	11-17	0	0.0	358	2.8
	18-49	59	29.5	4493	35.6
	50-64	115	57.5	6373	50.5
	65+	26	13.0	423	3.3
<b>Recipient Gender</b>	Female	29	14.5	2761	21.9
	Male	171	85.5	9866	78.1
<b>Recipient Race</b>	White	165	82.5	10504	83.2
	Black	17	8.5	1206	9.6
	Hispanic	15	7.5	570	4.5
	Asian	1	0.5	125	1.0
	Other	2	1.0	216	1.7
	Not Reported	0	0.0	6	0.0

		----- Program -----		--- National ---	
		Number	%	Number	%
<b>Previous Heart Transplant</b>	No	193	96.5	12231	96.9
	Yes	7	3.5	344	2.7
	Not Reported	0	0.0	52	0.4
<b>On Ventilator at Transplant</b>	No	195	97.5	11892	94.2
	Yes	5	2.5	663	5.3
	Not Reported	0	0.0	72	0.6
<b>On VAD at Transplant</b>	No	179	89.5	12187	96.5
	Yes	21	10.5	366	2.9
	Not Reported	0	0.0	74	0.6
<b>On IABP at Transplant</b>	No	171	85.5	11754	93.1
	Yes	29	14.5	801	6.3
	Not Reported	0	0.0	72	0.6
<b>Diagnosis at Transplant</b>	Coronary Artery Disease	6	3.0	5222	41.4
	Cardiomyopathy	186	93.0	5779	45.8
	Eisenmenger's Syndrome/Congenital	3	1.5	933	7.4
	Valvular Heart Disease	5	2.5	476	3.8
	Other Diagnosis	0	0.0	183	1.4
	Not Reported	0	0.0	34	0.3
<b>Medical Condition at Transplant</b>	Not Hospitalized	72	36.0	5606	44.4
	Hospitalized	17	8.5	986	7.8
	In ICU	111	55.5	6019	47.7
	Not Reported	0	0.0	16	0.1
<b>Cold Ischemia Time</b>	Up to 2 hrs	69	34.5	3458	27.4
	> 2 - 2.5 hrs	29	14.5	2271	18.0
	> 2.5 - 3 hrs	32	16.0	2408	19.1
	> 3 - 3.5 hrs	29	14.5	1949	15.4
	> 3.5 hrs	41	20.5	2453	19.4
	Not Reported	0	0.0	88	0.7
<b>Year of Transplant</b>	1988	35	17.5	1649	13.1
	1989	31	15.5	1677	13.3
	1990	39	19.5	2071	16.4
	1991	33	16.5	2098	16.6
	1992	28	14.0	2145	17.0
	1993	26	13.0	2266	17.9
	1994	8	4.0	721	5.7

Source: UNOS OPTN/Scientific Registry data.

**Response From: The Methodist Hospital-Baylor College of Medicine  
6565 Fannin, Houston, TX 77030  
Provider Number 450358 (TXMH)**

May 13, 1997

The Methodist Hospital/Baylor College of Medicine Multi-organ Transplant Center (TMH/BCM MOTC) was established in 1984 to create the optimal environment for solid organ and tissue transplantation. The Transplant Center is a unique organization that spans departmental and section lines, allowing efficient utilization of necessary personnel, Hospital, and College resources. Our mission is to provide the highest quality of care to patients being evaluated for, or receiving, organ and tissue transplantation. As a proactive medical facility, we are also committed to research, and remain dedicated to advancing the art and science of organ and tissue transplantation by performing clinical and basic research relevant to organ and tissue transplantation, as well as educating physicians and other healthcare personnel in transplantation.

TMH/BCM MOTC currently maintains active heart, heart-lung, lung, kidney, and pancreas programs. When the first heart transplant in Texas, among the first in the country, was performed at The Methodist Hospital in 1968, it seized the public's imagination. The groundwork for this surgery was laid in the 1950's, when Michael E. DeBakey, M.D., began carrying out his goal of building an outstanding clinical and cardiovascular research center. DeBakey, along with his team of specialists and support and research personnel, began working together to increase the understanding and treatment of cardiovascular and other diseases. Over the years, the Center has built on this beginning, to what it is today. On August 6, 1987, we became the first Medicare-designated Heart Transplant Center in Texas, and one of the first seven in the country. This designation recognized our experience and excellence in heart transplant medicine. Our surgical team also has expertise and experience in implanting total artificial hearts, as well as a variety of other ventricular support devices.

According to UNOS, TMH/BCM MOTC had an actual patient survival rate of 73.6 percent at one year. The expected survival rate at one year was 81.6. This was calculated from a statistical risk model based on national data. A variety of medical factors have influenced graft and patient survival at TMH/BCM MOTC. Patients should always talk with their physician about their options when deciding upon a transplant facility which will best meet their needs. We are confident in our program, and the level of expertise and excellence that we provide our patients. We welcome your further investigation of our program, and will be happy to discuss your individual circumstances and how our program can address those needs.

George P. Noon  
Program Director





## Heart Transplants: January 1, 1988 - April 30, 1994

Survival Report for St Paul Medical Center - Dallas TX  
Provider Number 450044 (TXSP)Graft Survival

	Era 1: 1/1/88-4/30/92			Era 2: 5/1/92-4/30/94			Overall: 1/1/88-4/30/94						
Time Point	No. of TX	Act. Rate (%)	Exp. Rate (%)	No. of TX	Act. Rate (%)	Exp. Rate (%)	No. of TX	No. <sup>1</sup> w/CFU	No. Failed	Act. Rate (%)	Exp. Rate (%)	Diff. (%)	p- <sup>2</sup> value
1 Month	87	97.7	92.8	44	100.0	92.4	131	131	2	98.5	92.7	5.8	<0.01*
1 Year	87	90.8	82.6	44	86.4	82.2	131	131	14	89.3	82.4	6.9	0.03*
Cond. <sup>3</sup> 3 Years	79	100.0	89.8				79	79	0	100.0	89.8	10.2	<0.01*
3 Years <sup>3</sup>		90.8	74.2										

Patient Survival

	Era 1: 1/1/88-4/30/92			Era 2: 5/1/92-4/30/94			Overall: 1/1/88-4/30/94						
Time Point	No. of Pts. <sup>4</sup>	Act. Rate (%)	Exp. Rate (%)	No. of Pts. <sup>4</sup>	Act. Rate (%)	Exp. Rate (%)	No. of Pts. <sup>4</sup>	No. <sup>1,5</sup> w/CFU	No. <sup>5</sup> Died	Act. Rate (%)	Exp. Rate (%)	Diff. (%)	p- <sup>2</sup> value
1 Month	87	97.7	93.1	44	100.0	92.7	131	130.5	2.0	98.5	92.9	5.5	0.01*
1 Year	87	91.3	83.2	44	86.4	82.7	131	130.5	13.5	89.7	83.0	6.6	0.04*
Cond. <sup>3</sup> 3 Years	79	100.0	90.3				79	79.0	0.0	100.0	90.3	9.7	<0.01*
3 Years <sup>3</sup>		91.3	75.1										

- Notes: <sup>1</sup> No. with complete follow-up (CFU) is the total of the number of patients (grafts) whose status was known during the specified time interval.
- <sup>2</sup> A p-value followed by an \* indicates that the difference is statistically significant at the 0.05 level.
- <sup>3</sup> Conditional 3 year survival rates are the survival rates conditional on survival at 1 year. These are computed based on transplants between 1/1/88 and 4/30/92. Three year survival rates are computed by multiplying the 1 year and the conditional 3 year survival rates.
- <sup>4</sup> The numbers of patients in Era 1 and Era 2 do not necessarily add up to the number of patients in the overall period, due to repeat transplants in different eras for some patients.
- <sup>5</sup> No. w/CFU or No. Died may be fractional if patients received more than one transplant at the program.

Source: UNOS OPTN/Scientific Registry data.



**Heart Transplants: January 1, 1988 - April 30, 1994**  
**Donor and Recipient Characteristics: Program and National Frequencies**

**St Paul Medical Center - Dallas TX**  
**Provider Number 450044 (TXSP)**

		----- Program -----		--- National ---	
		Number	%	Number	%
<b>Total Transplants and Percentages</b>		<b>131</b>	<b>100.0</b>	<b>12627</b>	<b>100.0</b>
<b>Donor Age</b>	0-5	0	0.0	799	6.3
	6-10	0	0.0	274	2.2
	11-17	24	18.3	2029	16.1
	18-49	99	75.6	8923	70.7
	50-64	8	6.1	589	4.7
	65+	0	0.0	12	0.1
	Not Reported	0	0.0	1	0.0
<b>Donor Gender</b>	Female	36	27.5	3728	29.5
	Male	95	72.5	8899	70.5
<b>Donor Race</b>	White	89	67.9	10036	79.5
	Black	12	9.2	1263	10.0
	Hispanic	28	21.4	1143	9.1
	Asian	0	0.0	90	0.7
	Other	1	0.8	87	0.7
	Not Reported	1	0.8	8	0.1
<b>Recipient Age</b>	<1	0	0.0	549	4.3
	1-10	0	0.0	431	3.4
	11-17	1	0.8	358	2.8
	18-49	48	36.6	4493	35.6
	50-64	76	58.0	6373	50.5
	65+	6	4.6	423	3.3
<b>Recipient Gender</b>	Female	30	22.9	2761	21.9
	Male	101	77.1	9866	78.1
<b>Recipient Race</b>	White	113	86.3	10504	83.2
	Black	14	10.7	1206	9.6
	Hispanic	2	1.5	570	4.5
	Asian	0	0.0	125	1.0
	Other	2	1.5	216	1.7
	Not Reported	0	0.0	6	0.0

		----- Program -----		--- National ---	
		Number	%	Number	%
Previous Heart Transplant	No	130	99.2	12231	96.9
	Yes	1	0.8	344	2.7
	Not Reported	0	0.0	52	0.4
On Ventilator at Transplant	No	129	98.5	11892	94.2
	Yes	2	1.5	663	5.3
	Not Reported	0	0.0	72	0.6
On VAD at Transplant	No	130	99.2	12187	96.5
	Yes	1	0.8	366	2.9
	Not Reported	0	0.0	74	0.6
On IABP at Transplant	No	121	92.4	11754	93.1
	Yes	10	7.6	801	6.3
	Not Reported	0	0.0	72	0.6
Diagnosis at Transplant	Coronary Artery Disease	72	55.0	5222	41.4
	Cardiomyopathy	54	41.2	5779	45.8
	Eisenmenger's Syndrome/Congenital	1	0.8	933	7.4
	Valvular Heart Disease	4	3.1	476	3.8
	Other Diagnosis	0	0.0	183	1.4
	Not Reported	0	0.0	34	0.3
Medical Condition at Transplant	Not Hospitalized	88	67.2	5606	44.4
	Hospitalized	3	2.3	986	7.8
	In ICU	40	30.5	6019	47.7
	Not Reported	0	0.0	16	0.1
Cold Ischemia Time	Up to 2 hrs	34	26.0	3458	27.4
	> 2 - 2.5 hrs	20	15.3	2271	18.0
	> 2.5 - 3 hrs	29	22.1	2408	19.1
	> 3 - 3.5 hrs	25	19.1	1949	15.4
	> 3.5 hrs	23	17.6	2453	19.4
	Not Reported	0	0.0	88	0.7
Year of Transplant	1988	8	6.1	1649	13.1
	1989	25	19.1	1677	13.3
	1990	31	23.7	2071	16.4
	1991	19	14.5	2098	16.6
	1992	26	19.8	2145	17.0
	1993	18	13.7	2266	17.9
	1994	4	3.1	721	5.7

Source: UNOS OPTN/Scientific Registry data.

## Heart Transplants: January 1, 1988 - April 30, 1994

Survival Report for Baylor University Medical Center - Dallas TX  
Provider Number 450021 (TXX)Graft Survival

	Era 1: 1/1/88-4/30/92			Era 2: 5/1/92-4/30/94			Overall: 1/1/88-4/30/94						
Time Point	No. of TX	Act. Rate (%)	Exp. Rate (%)	No. of TX	Act. Rate (%)	Exp. Rate (%)	No. of TX	No. <sup>1</sup> w/CFU	No. Failed	Act. Rate (%)	Exp. Rate (%)	Diff. (%)	p- <sup>2</sup> value
1 Month	95	76.8	91.4	28	100.0	93.3	123	123	22	82.1	91.8	-9.7	<0.01*
1 Year	95	69.5	81.1	28	92.9	83.8	123	123	31	74.8	81.7	-6.9	0.04*
Cond. <sup>3</sup> 3 Years	66	89.1	91.1				66	62	7	89.1	91.1	-2.0	0.57
3 Years <sup>3</sup>		61.9	73.9										

Patient Survival

	Era 1: 1/1/88-4/30/92			Era 2: 5/1/92-4/30/94			Overall: 1/1/88-4/30/94						
Time Point	No. of Pts. <sup>4</sup>	Act. Rate (%)	Exp. Rate (%)	No. of Pts. <sup>4</sup>	Act. Rate (%)	Exp. Rate (%)	No. of Pts. <sup>4</sup>	No. <sup>1,5</sup> w/CFU	No. <sup>5</sup> Died	Act. Rate (%)	Exp. Rate (%)	Diff. (%)	p- <sup>2</sup> value
1 Month	92	79.3	91.8	28	100.0	93.4	120	120.0	19.0	84.2	92.2	-8.0	<0.01*
1 Year	92	71.7	82.1	28	92.9	84.2	120	120.0	28.0	76.7	82.6	-5.9	0.08
Cond. <sup>3</sup> 3 Years	66	89.1	91.4				66	62.0	7.0	89.1	91.4	-2.3	0.50
3 Years <sup>3</sup>		63.9	75.1										

Notes: <sup>1</sup> No. with complete follow-up (CFU) is the total of the number of patients (grafts) whose status was known during the specified time interval.

<sup>2</sup> A p-value followed by an \* indicates that the difference is statistically significant at the 0.05 level.

<sup>3</sup> Conditional 3 year survival rates are the survival rates conditional on survival at 1 year. These are computed based on transplants between 1/1/88 and 4/30/92. Three year survival rates are computed by multiplying the 1 year and the conditional 3 year survival rates.

<sup>4</sup> The numbers of patients in Era 1 and Era 2 do not necessarily add up to the number of patients in the overall period, due to repeat transplants in different eras for some patients.

<sup>5</sup> No. w/CFU or No. Died may be fractional if patients received more than one transplant at the program.

Source: UNOS OPTN/Scientific Registry data.

**Heart Transplants: January 1, 1988 - April 30, 1994**  
**Donor and Recipient Characteristics: Program and National Frequencies**

**Baylor University Medical Center - Dallas TX**  
**Provider Number 450021 (TXTX)**

		----- Program -----		--- National ---	
		Number	%	Number	%
<b>Total Transplants and Percentages</b>		<b>123</b>	<b>100.0</b>	<b>12627</b>	<b>100.0</b>
<b>Donor Age</b>	0-5	0	0.0	799	6.3
	6-10	0	0.0	274	2.2
	11-17	16	13.0	2029	16.1
	18-49	102	82.9	8923	70.7
	50-64	5	4.1	589	4.7
	65+	0	0.0	12	0.1
	Not Reported	0	0.0	1	0.0
<b>Donor Gender</b>	Female	27	22.0	3728	29.5
	Male	96	78.0	8899	70.5
<b>Donor Race</b>	White	99	80.5	10036	79.5
	Black	11	8.9	1263	10.0
	Hispanic	12	9.8	1143	9.1
	Asian	0	0.0	90	0.7
	Other	1	0.8	87	0.7
	Not Reported	0	0.0	8	0.1
<b>Recipient Age</b>	<1	0	0.0	549	4.3
	1-10	0	0.0	431	3.4
	11-17	1	0.8	358	2.8
	18-49	39	31.7	4493	35.6
	50-64	68	55.3	6373	50.5
	65+	15	12.2	423	3.3
<b>Recipient Gender</b>	Female	31	25.2	2761	21.9
	Male	92	74.8	9866	78.1
<b>Recipient Race</b>	White	106	86.2	10504	83.2
	Black	11	8.9	1206	9.6
	Hispanic	5	4.1	570	4.5
	Asian	1	0.8	125	1.0
	Other	0	0.0	216	1.7
	Not Reported	0	0.0	6	0.0

		----- Program -----		--- National ---	
		Number	%	Number	%
<b>Previous Heart Transplant</b>	No	120	97.6	12231	96.9
	Yes	3	2.4	344	2.7
	Not Reported	0	0.0	52	0.4
<b>On Ventilator at Transplant</b>	No	119	96.7	11892	94.2
	Yes	4	3.3	663	5.3
	Not Reported	0	0.0	72	0.6
<b>On VAD at Transplant</b>	No	123	100.0	12187	96.5
	Yes	0	0.0	366	2.9
	Not Reported	0	0.0	74	0.6
<b>On IABP at Transplant</b>	No	99	80.5	11754	93.1
	Yes	24	19.5	801	6.3
	Not Reported	0	0.0	72	0.6
<b>Diagnosis at Transplant</b>	Coronary Artery Disease	51	41.5	5222	41.4
	Cardiomyopathy	64	52.0	5779	45.8
	Eisenmenger's Syndrome/Congenital	0	0.0	933	7.4
	Valvular Heart Disease	6	4.9	476	3.8
	Other Diagnosis	0	0.0	183	1.4
	Not Reported	2	1.6	34	0.3
<b>Medical Condition at Transplant</b>	Not Hospitalized	42	34.1	5606	44.4
	Hospitalized	0	0.0	986	7.8
	In ICU	81	65.9	6019	47.7
	Not Reported	0	0.0	16	0.1
<b>Cold Ischemia Time</b>	Up to 2 hrs	36	29.3	3458	27.4
	> 2 - 2.5 hrs	22	17.9	2271	18.0
	> 2.5 - 3 hrs	23	18.7	2408	19.1
	> 3 - 3.5 hrs	24	19.5	1949	15.4
	> 3.5 hrs	18	14.6	2453	19.4
	Not Reported	0	0.0	88	0.7
<b>Year of Transplant</b>	1988	19	15.4	1649	13.1
	1989	19	15.4	1677	13.3
	1990	23	18.7	2071	16.4
	1991	32	26.0	2098	16.6
	1992	12	9.8	2145	17.0
	1993	15	12.2	2266	17.9
	1994	3	2.4	721	5.7

Source: UNOS OPTN/Scientific Registry data.

**Response From: Baylor University Medical Center  
3500 Gaston Avenue, Dallas, TX 75246  
Provider Number 450021 (TXTX)**

May 9, 1997

Baylor University Medical Center has an excellent reputation in the field of solid organ transplantation. Our heart transplant program has developed significantly in recent years which is reflected in our survival rates from 1992 to 1994. Our one month and one year survival exceed the expected rate.

Baylor has taken several additional steps to ensure the continued growth of the heart and lung transplant program. Under new leadership provided by myself and Dr. Clyde Yancy, we are in the initial stage of merging the Baylor heart and lung transplant program with the program at St. Paul Medical Center in Dallas. The combined program will capitalize on the available expertise and resources of both institutions. We anticipate increased volume and a continued trend of patient survival which matches and exceeds the national benchmarks.

All heart transplant centers are experiencing increased competition for scarce organs. The redistribution of a static resource among an increasing number of players frequently drives volumes lower and lower at each transplant center. With decreasing volumes, the effect of one adverse event can appear statistically significant, but not accurately reflect a true picture of the program, the complexity of the cases referred there or the ability of the team assembled to provide excellent care. Therefore, we suggest caution in evaluating this or any program by only one measure, such as survival rates.

We look forward to continuing to serve patients suffering from end stage heart disease with a multi-disciplinary approach to excellence in patient care and the on-going growth and development of our program under the umbrella of the Baylor Institute of Transplant Sciences.

W. Steves Ring, M.D.  
Director, Heart and Lung Transplant Program



## Heart Transplants: January 1, 1988 - April 30, 1994

Survival Report for Latter-Day Saints Hospital - Salt Lake City UT  
Provider Number 460010 (UTLD)Graft Survival

	Era 1: 1/1/88-4/30/92			Era 2: 5/1/92-4/30/94			Overall: 1/1/88-4/30/94						
Time Point	No. of TX	Act. Rate (%)	Exp. Rate (%)	No. of TX	Act. Rate (%)	Exp. Rate (%)	No. of TX	No. <sup>1</sup> w/CFU	No. Failed	Act. Rate (%)	Exp. Rate (%)	Diff. (%)	p- <sup>2</sup> value
1 Month	97	96.9	89.7	26	96.2	92.7	123	123	4	96.7	90.4	6.4	0.01*
1 Year	97	87.6	79.4	26	84.6	84.0	123	123	16	87.0	80.4	6.6	0.05
Cond. <sup>3</sup> 3 Years	85	91.8	89.9				85	85	7	91.8	89.9	1.9	0.56
3 Years <sup>3</sup>		80.4	71.3										

Patient Survival

	Era 1: 1/1/88-4/30/92			Era 2: 5/1/92-4/30/94			Overall: 1/1/88-4/30/94						
Time Point	No. of Pts. <sup>4</sup>	Act. Rate (%)	Exp. Rate (%)	No. of Pts. <sup>4</sup>	Act. Rate (%)	Exp. Rate (%)	No. of Pts. <sup>4</sup>	No. <sup>1,5</sup> w/CFU	No. <sup>5</sup> Died	Act. Rate (%)	Exp. Rate (%)	Diff. (%)	p- <sup>2</sup> value
1 Month	93	97.8	90.7	26	96.2	93.1	119	119.0	3.0	97.5	91.2	6.3	0.01*
1 Year	93	90.3	80.8	26	84.6	84.5	119	119.0	13.0	89.1	81.6	7.5	0.03*
Cond. <sup>3</sup> 3 Years	84	92.9	90.5				84	84.0	6.0	92.9	90.5	2.4	0.46
3 Years <sup>3</sup>		83.9	73.1										

Notes: <sup>1</sup> No. with complete follow-up (CFU) is the total of the number of patients (grafts) whose status was known during the specified time interval.

<sup>2</sup> A p-value followed by an \* indicates that the difference is statistically significant at the 0.05 level.

<sup>3</sup> Conditional 3 year survival rates are the survival rates conditional on survival at 1 year. These are computed based on transplants between 1/1/88 and 4/30/92. Three year survival rates are computed by multiplying the 1 year and the conditional 3 year survival rates.

<sup>4</sup> The numbers of patients in Era 1 and Era 2 do not necessarily add up to the number of patients in the overall period, due to repeat transplants in different eras for some patients.

<sup>5</sup> No. w/CFU or No. Died may be fractional if patients received more than one transplant at the program.

Source: UNOS OPTN/Scientific Registry data.



**Heart Transplants: January 1, 1988 - April 30, 1994**  
**Donor and Recipient Characteristics: Program and National Frequencies**

**Latter-Day Saints Hospital - Salt Lake City UT**  
**Provider Number 460010 (UTLD)**

		----- Program -----		--- National ---	
		Number	%	Number	%
<b>Total Transplants and Percentages</b>		<b>123</b>	<b>100.0</b>	<b>12627</b>	<b>100.0</b>
<b>Donor Age</b>	0-5	0	0.0	799	6.3
	6-10	0	0.0	274	2.2
	11-17	34	27.6	2029	16.1
	18-49	81	65.9	8923	70.7
	50-64	8	6.5	589	4.7
	65+	0	0.0	12	0.1
	Not Reported	0	0.0	1	0.0
<b>Donor Gender</b>	Female	49	39.8	3728	29.5
	Male	74	60.2	8899	70.5
<b>Donor Race</b>	White	112	91.1	10036	79.5
	Black	1	0.8	1263	10.0
	Hispanic	7	5.7	1143	9.1
	Asian	3	2.4	90	0.7
	Other	0	0.0	87	0.7
	Not Reported	0	0.0	8	0.1
<b>Recipient Age</b>	<1	0	0.0	549	4.3
	1-10	0	0.0	431	3.4
	11-17	0	0.0	358	2.8
	18-49	39	31.7	4493	35.6
	50-64	75	61.0	6373	50.5
	65+	9	7.3	423	3.3
<b>Recipient Gender</b>	Female	22	17.9	2761	21.9
	Male	101	82.1	9866	78.1
<b>Recipient Race</b>	White	113	91.9	10504	83.2
	Black	0	0.0	1206	9.6
	Hispanic	8	6.5	570	4.5
	Asian	0	0.0	125	1.0
	Other	2	1.6	216	1.7
	Not Reported	0	0.0	6	0.0

		----- Program -----		--- National ---	
		Number	%	Number	%
<b>Previous Heart Transplant</b>	No	118	95.9	12231	96.9
	Yes	5	4.1	344	2.7
	Not Reported	0	0.0	52	0.4
<b>On Ventilator at Transplant</b>	No	115	93.5	11892	94.2
	Yes	8	6.5	663	5.3
	Not Reported	0	0.0	72	0.6
<b>On VAD at Transplant</b>	No	118	95.9	12187	96.5
	Yes	5	4.1	366	2.9
	Not Reported	0	0.0	74	0.6
<b>On IABP at Transplant</b>	No	108	87.8	11754	93.1
	Yes	15	12.2	801	6.3
	Not Reported	0	0.0	72	0.6
<b>Diagnosis at Transplant</b>	Coronary Artery Disease	62	50.4	5222	41.4
	Cardiomyopathy	48	39.0	5779	45.8
	Eisenmenger's Syndrome/Congenital	1	0.8	933	7.4
	Valvular Heart Disease	12	9.8	476	3.8
	Other Diagnosis	0	0.0	183	1.4
	Not Reported	0	0.0	34	0.3
<b>Medical Condition at Transplant</b>	Not Hospitalized	53	43.1	5606	44.4
	Hospitalized	8	6.5	986	7.8
	In ICU	62	50.4	6019	47.7
	Not Reported	0	0.0	16	0.1
<b>Cold Ischemia Time</b>	Up to 2 hrs	31	25.2	3458	27.4
	> 2 - 2.5 hrs	11	8.9	2271	18.0
	> 2.5 - 3 hrs	19	15.4	2408	19.1
	> 3 - 3.5 hrs	28	22.8	1949	15.4
	> 3.5 hrs	34	27.6	2453	19.4
	Not Reported	0	0.0	88	0.7
<b>Year of Transplant</b>	1988	20	16.3	1649	13.1
	1989	24	19.5	1677	13.3
	1990	24	19.5	2071	16.4
	1991	21	17.1	2098	16.6
	1992	19	15.4	2145	17.0
	1993	12	9.8	2266	17.9
	1994	3	2.4	721	5.7

Source: UNOS OPTN/Scientific Registry data.

**Response From: LDS Hospital  
Eighth Avenue and C Street, Salt Lake City, UT 84143  
Provider Number 460010 (UTLD)**

April 30, 1997

LDS Hospital is pleased that the UNOS survival statistics for our heart transplant program reflect our long-standing commitment to high-quality patient care, especially among complex, high-risk patients. LDS Hospital is one of four hospitals comprising the Utah Transplantation Affiliated Hospitals (UTAH) Cardiac Transplant Program. The transplant specialists involved in the program provide identical care in the four institutions offering cardiac transplantation in Utah. The program began in March, 1985, and has to date performed 648 transplants. Over the entire duration of the Program, **one-year survival** has averaged **87%** and **five-year** survival has averaged **71%**, reflecting the long-term quality of the program. While UNOS data encompass only the time period from January 1, 1988 to April 30, 1994, an accurate reflection of the commitment to care and standards of excellence found at LDS Hospital and in the UTAH Cardiac Transplant Program is portrayed. The UNOS-reported patient results of one- and three-year survivals of 89.1% and 83.9%, respectively, depict a remarkable achievement considering the number of high-risk patients transplanted and the number of high risk donor hearts used. Being initially considered too high risk, many of our patients were previously turned away from less experienced transplant programs. Additionally, many of the donor hearts were declined for use elsewhere, necessitating procurement from greater distances, as reflected in the fact that 50.4% of our hearts had an ischemic time > 180 minutes compared to the national average of only 34.9%. The reported survival rates demonstrate successful expansion of both recipient and donor pools.

The UTAH Cardiac Transplant Program, with its affiliate at LDS Hospital, remains one of the premier programs for heart transplantation because of its multi-disciplinary and multi-institutional approach and its commitment to improving heart transplantation as a treatment modality for end-stage heart failure.

Dale G. Renlund, M.D.  
Medical Director, UTAH  
Cardiac Transplant Program



## Heart Transplants: January 1, 1988 - April 30, 1994

Survival Report for University of Utah Medical Center - Salt Lake City UT  
Provider Number 460009 (UTMC)Graft Survival

	Era 1: 1/1/88-4/30/92			Era 2: 5/1/92-4/30/94			Overall: 1/1/88-4/30/94						
Time Point	No. of TX	Act. Rate (%)	Exp. Rate (%)	No. of TX	Act. Rate (%)	Exp. Rate (%)	No. of TX	No. <sup>1</sup> w/CFU	No. Failed	Act. Rate (%)	Exp. Rate (%)	Diff. (%)	p- <sup>2</sup> value
1 Month	122	93.4	90.0	25	96.0	90.2	147	147	9	93.9	90.0	3.9	0.10
1 Year	122	77.9	79.7	25	72.0	80.3	147	147	34	76.9	79.8	-2.9	0.36
Cond. <sup>3</sup> 3 Years	95	91.6	89.5				95	94	8	91.6	89.5	2.0	0.51
3 Years <sup>3</sup>		71.3	71.3										

Patient Survival

	Era 1: 1/1/88-4/30/92			Era 2: 5/1/92-4/30/94			Overall: 1/1/88-4/30/94						
Time Point	No. of Pts. <sup>4</sup>	Act. Rate (%)	Exp. Rate (%)	No. of Pts. <sup>4</sup>	Act. Rate (%)	Exp. Rate (%)	No. of Pts. <sup>4</sup>	No. <sup>1,5</sup> w/CFU	No. <sup>5</sup> Died	Act. Rate (%)	Exp. Rate (%)	Diff. (%)	p- <sup>2</sup> value
1 Month	119	94.1	90.7	24	100.0	91.6	141	141.0	7.0	95.0	90.9	4.2	0.07
1 Year	119	79.7	80.9	24	76.1	82.3	141	141.0	29.5	79.1	81.1	-2.0	0.52
Cond. <sup>3</sup> 3 Years	95	91.6	90.3				95	94.0	8.0	91.6	90.3	1.3	0.66
3 Years <sup>3</sup>		72.9	73.0										

Notes: <sup>1</sup> No. with complete follow-up (CFU) is the total of the number of patients (grafts) whose status was known during the specified time interval.

<sup>2</sup> A p-value followed by an \* indicates that the difference is statistically significant at the 0.05 level.

<sup>3</sup> Conditional 3 year survival rates are the survival rates conditional on survival at 1 year. These are computed based on transplants between 1/1/88 and 4/30/92. Three year survival rates are computed by multiplying the 1 year and the conditional 3 year survival rates.

<sup>4</sup> The numbers of patients in Era 1 and Era 2 do not necessarily add up to the number of patients in the overall period, due to repeat transplants in different eras for some patients.

<sup>5</sup> No. w/CFU or No. Died may be fractional if patients received more than one transplant at the program.

Source: UNOS OPTN/Scientific Registry data.

**Heart Transplants: January 1, 1988 - April 30, 1994**  
**Donor and Recipient Characteristics: Program and National Frequencies**

**University of Utah Medical Center - Salt Lake City UT**  
**Provider Number 460009 (UTMC)**

		----- Program -----		--- National ---	
		Number	%	Number	%
<b>Total Transplants and Percentages</b>		<b>147</b>	<b>100.0</b>	<b>12627</b>	<b>100.0</b>
<b>Donor Age</b>	0-5	0	0.0	799	6.3
	6-10	4	2.7	274	2.2
	11-17	24	16.3	2029	16.1
	18-49	104	70.7	8923	70.7
	50-64	15	10.2	589	4.7
	65+	0	0.0	12	0.1
	Not Reported	0	0.0	1	0.0
<b>Donor Gender</b>	Female	61	41.5	3728	29.5
	Male	86	58.5	8899	70.5
<b>Donor Race</b>	White	134	91.2	10036	79.5
	Black	6	4.1	1263	10.0
	Hispanic	7	4.8	1143	9.1
	Asian	0	0.0	90	0.7
	Other	0	0.0	87	0.7
	Not Reported	0	0.0	8	0.1
<b>Recipient Age</b>	<1	0	0.0	549	4.3
	1-10	3	2.0	431	3.4
	11-17	4	2.7	358	2.8
	18-49	59	40.1	4493	35.6
	50-64	71	48.3	6373	50.5
	65+	10	6.8	423	3.3
<b>Recipient Gender</b>	Female	32	21.8	2761	21.9
	Male	115	78.2	9866	78.1
<b>Recipient Race</b>	White	129	87.8	10504	83.2
	Black	6	4.1	1206	9.6
	Hispanic	1	0.7	570	4.5
	Asian	2	1.4	125	1.0
	Other	9	6.1	216	1.7
	Not Reported	0	0.0	6	0.0

		----- Program -----		--- National ---	
		Number	%	Number	%
<b>Previous Heart Transplant</b>	No	136	92.5	12231	96.9
	Yes	9	6.1	344	2.7
	Not Reported	2	1.4	52	0.4
<b>On Ventilator at Transplant</b>	No	140	95.2	11892	94.2
	Yes	7	4.8	663	5.3
	Not Reported	0	0.0	72	0.6
<b>On VAD at Transplant</b>	No	143	97.3	12187	96.5
	Yes	3	2.0	366	2.9
	Not Reported	1	0.7	74	0.6
<b>On IABP at Transplant</b>	No	137	93.2	11754	93.1
	Yes	10	6.8	801	6.3
	Not Reported	0	0.0	72	0.6
<b>Diagnosis at Transplant</b>	Coronary Artery Disease	78	53.1	5222	41.4
	Cardiomyopathy	53	36.1	5779	45.8
	Eisenmenger's Syndrome/Congenital	8	5.4	933	7.4
	Valvular Heart Disease	6	4.1	476	3.8
	Other Diagnosis	2	1.4	183	1.4
	Not Reported	0	0.0	34	0.3
<b>Medical Condition at Transplant</b>	Not Hospitalized	69	46.9	5606	44.4
	Hospitalized	25	17.0	986	7.8
	In ICU	53	36.1	6019	47.7
	Not Reported	0	0.0	16	0.1
<b>Cold Ischemia Time</b>	Up to 2 hrs	24	16.3	3458	27.4
	> 2 - 2.5 hrs	21	14.3	2271	18.0
	> 2.5 - 3 hrs	19	12.9	2408	19.1
	> 3 - 3.5 hrs	34	23.1	1949	15.4
	> 3.5 hrs	49	33.3	2453	19.4
	Not Reported	0	0.0	88	0.7
<b>Year of Transplant</b>	1988	32	21.8	1649	13.1
	1989	31	21.1	1677	13.3
	1990	35	23.8	2071	16.4
	1991	19	12.9	2098	16.6
	1992	15	10.2	2145	17.0
	1993	11	7.5	2266	17.9
	1994	4	2.7	721	5.7

Source: UNOS OPTN/Scientific Registry data.



**Response From: University of Utah Medical Center  
50 North Medical Drive, Salt Lake City, UT 84132  
Provider Number 460009 (UTMC)**

April 30, 1997

The University of Utah Health Sciences Center is pleased that the UNOS survival statistics for our heart transplant program reflect our long-standing commitment to high-quality patient care, especially among complex, high-risk patients. The University of Utah Health Sciences Center is one of four hospitals comprising the Utah Transplantation Affiliated Hospitals (UTAH) Cardiac Transplant Program. The transplant specialists involved in the program provide identical care in the four institutions offering cardiac transplantation in Utah. The program began in March, 1985, and has to date performed 648 transplants. Over the entire duration of the Program, **one-year survival** has averaged 87% and **five-year survival** has averaged 71%, reflecting the true quality of the program.

Unfortunately, when UNOS releases data that encompass only the time period from January 1, 1988 to April 30, 1994, an accurate reflection of the commitment to care and standards of excellence found at the University of Utah and in the UTAH Cardiac Transplant Program is not fully portrayed. The UNOS-reported results do, however, depict a remarkable achievement considering the number of high-risk patients transplanted and the number of high risk donor hearts used. More than twice as many of our patients were retransplants when compared to the national average (6.1% versus 2.7%) and many of our patients were previously turned away from less experienced transplant programs. Additionally, many of the donor hearts were declined for use elsewhere, necessitating procurement from greater distances, as reflected in the fact that 56.4% of our hearts had an ischemic time > 180 minutes compared to the national average of only 34.9%. Furthermore, the number of donors  $\geq$  50 years was more than twice the national average (10.2% versus 4.8%). Thus, the reported survival rates fail to adjust for our successful expansion of recipient and donor pools.

The UTAH Cardiac Transplant Program, with its affiliate at the University of Utah, remains one of the premier programs for heart transplantation because of its multi-disciplinary and multi-institutional approach and its commitment to improving heart transplantation as a treatment modality for end-stage heart failure.

Dale G. Renlund, M.D.  
Medical Director, UTAH  
Cardiac Transplant Program





## Heart Transplants: January 1, 1988 - April 30, 1994

Survival Report for Primary Children's Medical Center - Salt Lake City UT  
Provider Number 469999 (UTPC)Graft Survival

	Era 1: 1/1/88-4/30/92			Era 2: 5/1/92-4/30/94			Overall: 1/1/88-4/30/94						
Time Point	No. of TX	Act. Rate (%)	Exp. Rate (%)	No. of TX	Act. Rate (%)	Exp. Rate (%)	No. of TX	No. <sup>1</sup> w/CFU	No. Failed	Act. Rate (%)	Exp. Rate (%)	Diff. (%)	p- <sup>2</sup> value
1 Month	3	66.7	76.5	15	86.7	88.8	18	18	3	83.3	86.7	-3.4	0.66
1 Year	3	66.7	66.8	15	86.7	78.1	18	18	3	83.3	76.2	7.1	0.46
Cond. <sup>3</sup> 3 Years	2	100.0	88.6				2	2	0	100.0	88.6	11.4	0.80
3 Years <sup>3</sup>		66.7	59.2										

Patient Survival

	Era 1: 1/1/88-4/30/92			Era 2: 5/1/92-4/30/94			Overall: 1/1/88-4/30/94						
Time Point	No. of Pts. <sup>4</sup>	Act. Rate (%)	Exp. Rate (%)	No. of Pts. <sup>4</sup>	Act. Rate (%)	Exp. Rate (%)	No. of Pts. <sup>4</sup>	No. <sup>1,5</sup> w/CFU	No. <sup>5</sup> Died	Act. Rate (%)	Exp. Rate (%)	Diff. (%)	p- <sup>2</sup> value
1 Month	3	66.7	76.9	15	86.7	89.2	18	18.0	3.0	83.3	87.2	-3.8	0.61
1 Year	3	66.7	67.6	15	86.7	79.1	18	18.0	3.0	83.3	77.2	6.2	0.52
Cond. <sup>3</sup> 3 Years	2	100.0	89.4				2	2.0	0.0	100.0	89.4	10.6	0.81
3 Years <sup>3</sup>		66.7	60.4										

Notes: <sup>1</sup> No. with complete follow-up (CFU) is the total of the number of patients (grafts) whose status was known during the specified time interval.

<sup>2</sup> A p-value followed by an \* indicates that the difference is statistically significant at the 0.05 level.

<sup>3</sup> Conditional 3 year survival rates are the survival rates conditional on survival at 1 year. These are computed based on transplants between 1/1/88 and 4/30/92. Three year survival rates are computed by multiplying the 1 year and the conditional 3 year survival rates.

<sup>4</sup> The numbers of patients in Era 1 and Era 2 do not necessarily add up to the number of patients in the overall period, due to repeat transplants in different eras for some patients.

<sup>5</sup> No. w/CFU or No. Died may be fractional if patients received more than one transplant at the program.

Source: UNOS OPTN/Scientific Registry data.

**Heart Transplants: January 1, 1988 - April 30, 1994**  
**Donor and Recipient Characteristics: Program and National Frequencies**

**Primary Children's Medical Center - Salt Lake City UT**  
**Provider Number 469999 (UTPC)**

		----- Program -----		--- National ---	
		Number	%	Number	%
<b>Total Transplants and Percentages</b>		<b>18</b>	<b>100.0</b>	<b>12627</b>	<b>100.0</b>
<b>Donor Age</b>	0-5	9	50.0	799	6.3
	6-10	2	11.1	274	2.2
	11-17	7	38.9	2029	16.1
	18-49	0	0.0	8923	70.7
	50-64	0	0.0	589	4.7
	65+	0	0.0	12	0.1
	Not Reported	0	0.0	1	0.0
<b>Donor Gender</b>	Female	7	38.9	3728	29.5
	Male	11	61.1	8899	70.5
<b>Donor Race</b>	White	12	66.7	10036	79.5
	Black	2	11.1	1263	10.0
	Hispanic	3	16.7	1143	9.1
	Asian	0	0.0	90	0.7
	Other	1	5.6	87	0.7
	Not Reported	0	0.0	8	0.1
<b>Recipient Age</b>	<1	7	38.9	549	4.3
	1-10	5	27.8	431	3.4
	11-17	5	27.8	358	2.8
	18-49	1	5.6	4493	35.6
	50-64	0	0.0	6373	50.5
	65+	0	0.0	423	3.3
<b>Recipient Gender</b>	Female	8	44.4	2761	21.9
	Male	10	55.6	9866	78.1
<b>Recipient Race</b>	White	16	88.9	10504	83.2
	Black	0	0.0	1206	9.6
	Hispanic	0	0.0	570	4.5
	Asian	2	11.1	125	1.0
	Other	0	0.0	216	1.7
	Not Reported	0	0.0	6	0.0

		----- Program -----		--- National ---	
		Number	%	Number	%
<b>Previous Heart Transplant</b>	No	18	100.0	12231	96.9
	Yes	0	0.0	344	2.7
	Not Reported	0	0.0	52	0.4
<b>On Ventilator at Transplant</b>	No	14	77.8	11892	94.2
	Yes	4	22.2	663	5.3
	Not Reported	0	0.0	72	0.6
<b>On VAD at Transplant</b>	No	18	100.0	12187	96.5
	Yes	0	0.0	366	2.9
	Not Reported	0	0.0	74	0.6
<b>On IABP at Transplant</b>	No	18	100.0	11754	93.1
	Yes	0	0.0	801	6.3
	Not Reported	0	0.0	72	0.6
<b>Diagnosis at Transplant</b>	Coronary Artery Disease	0	0.0	5222	41.4
	Cardiomyopathy	7	38.9	5779	45.8
	Eisenmenger's Syndrome/Congenital	10	55.6	933	7.4
	Valvular Heart Disease	0	0.0	476	3.8
	Other Diagnosis	1	5.6	183	1.4
	Not Reported	0	0.0	34	0.3
<b>Medical Condition at Transplant</b>	Not Hospitalized	6	33.3	5606	44.4
	Hospitalized	1	5.6	986	7.8
	In ICU	11	61.1	6019	47.7
	Not Reported	0	0.0	16	0.1
<b>Cold Ischemia Time</b>	Up to 2 hrs	2	11.1	3458	27.4
	> 2 - 2.5 hrs	1	5.6	2271	18.0
	> 2.5 - 3 hrs	3	16.7	2408	19.1
	> 3 - 3.5 hrs	2	11.1	1949	15.4
	> 3.5 hrs	10	55.6	2453	19.4
	Not Reported	0	0.0	88	0.7
<b>Year of Transplant</b>	1988	0	0.0	1649	13.1
	1989	0	0.0	1677	13.3
	1990	0	0.0	2071	16.4
	1991	1	5.6	2098	16.6
	1992	7	38.9	2145	17.0
	1993	7	38.9	2266	17.9
	1994	3	16.7	721	5.7

Source: UNOS OPTN/Scientific Registry data.

## Heart Transplants: January 1, 1988 - April 30, 1994

Survival Report for VA Medical Center - Salt Lake City UT  
Provider Number 46002F (UTVA)Graft Survival

	Era 1: 1/1/88-4/30/92			Era 2: 5/1/92-4/30/94			Overall: 1/1/88-4/30/94						
Time Point	No. of TX	Act. Rate (%)	Exp. Rate (%)	No. of TX	Act. Rate (%)	Exp. Rate (%)	No. of TX	No. <sup>1</sup> w/CFU	No. Failed	Act. Rate (%)	Exp. Rate (%)	Diff. (%)	p- <sup>2</sup> value
1 Month	87	90.8	91.4	30	93.3	91.9	117	117	10	91.5	91.5	-0.1	0.97
1 Year	87	75.9	80.0	30	93.3	81.6	117	117	23	80.3	80.4	-0.1	0.99
Cond. <sup>3</sup> 3 Years	66	89.3	90.3				66	65	7	89.3	90.3	-1.0	0.79
3 Years <sup>3</sup>		67.8	72.2										

Patient Survival

	Era 1: 1/1/88-4/30/92			Era 2: 5/1/92-4/30/94			Overall: 1/1/88-4/30/94						
Time Point	No. of Pts. <sup>4</sup>	Act. Rate (%)	Exp. Rate (%)	No. of Pts. <sup>4</sup>	Act. Rate (%)	Exp. Rate (%)	No. of Pts. <sup>4</sup>	No. <sup>1,5</sup> w/CFU	No. <sup>5</sup> Died	Act. Rate (%)	Exp. Rate (%)	Diff. (%)	p- <sup>2</sup> value
1 Month	82	92.0	92.2	30	93.2	92.8	111	111.0	8.5	92.3	92.3	-0.0	1.00
1 Year	82	81.0	81.4	30	93.2	82.8	111	111.0	17.5	84.2	81.8	2.4	0.49
Cond. <sup>3</sup> 3 Years	67	89.5	90.7				67	66.0	7.0	89.5	90.7	-1.2	0.73
3 Years <sup>3</sup>		72.5	73.9										

Notes: <sup>1</sup> No. with complete follow-up (CFU) is the total of the number of patients (grafts) whose status was known during the specified time interval.

<sup>2</sup> A p-value followed by an \* indicates that the difference is statistically significant at the 0.05 level.

<sup>3</sup> Conditional 3 year survival rates are the survival rates conditional on survival at 1 year. These are computed based on transplants between 1/1/88 and 4/30/92. Three year survival rates are computed by multiplying the 1 year and the conditional 3 year survival rates.

<sup>4</sup> The numbers of patients in Era 1 and Era 2 do not necessarily add up to the number of patients in the overall period, due to repeat transplants in different eras for some patients.

<sup>5</sup> No. w/CFU or No. Died may be fractional if patients received more than one transplant at the program.

Source: UNOS OPTN/Scientific Registry data.

**Heart Transplants: January 1, 1988 - April 30, 1994**  
**Donor and Recipient Characteristics: Program and National Frequencies**

**VA Medical Center - Salt Lake City UT**  
**Provider Number 46002F (UTVA)**

		----- Program -----		--- National ---	
		Number	%	Number	%
<b>Total Transplants and Percentages</b>		<b>117</b>	<b>100.0</b>	<b>12627</b>	<b>100.0</b>
<b>Donor Age</b>	0-5	0	0.0	799	6.3
	6-10	0	0.0	274	2.2
	11-17	21	17.9	2029	16.1
	18-49	85	72.6	8923	70.7
	50-64	11	9.4	589	4.7
	65+	0	0.0	12	0.1
	Not Reported	0	0.0	1	0.0
<b>Donor Gender</b>	Female	43	36.8	3728	29.5
	Male	74	63.2	8899	70.5
<b>Donor Race</b>	White	105	89.7	10036	79.5
	Black	3	2.6	1263	10.0
	Hispanic	7	6.0	1143	9.1
	Asian	0	0.0	90	0.7
	Other	2	1.7	87	0.7
	Not Reported	0	0.0	8	0.1
<b>Recipient Age</b>	<1	1	0.9	549	4.3
	1-10	0	0.0	431	3.4
	11-17	0	0.0	358	2.8
	18-49	39	33.3	4493	35.6
	50-64	76	65.0	6373	50.5
	65+	1	0.9	423	3.3
<b>Recipient Gender</b>	Female	0	0.0	2761	21.9
	Male	117	100.0	9866	78.1
<b>Recipient Race</b>	White	107	91.5	10504	83.2
	Black	5	4.3	1206	9.6
	Hispanic	2	1.7	570	4.5
	Asian	0	0.0	125	1.0
	Other	3	2.6	216	1.7
	Not Reported	0	0.0	6	0.0

		----- Program -----		--- National ---	
		Number	%	Number	%
<b>Previous Heart Transplant</b>	No	107	91.5	12231	96.9
	Yes	10	8.5	344	2.7
	Not Reported	0	0.0	52	0.4
<b>On Ventilator at Transplant</b>	No	114	97.4	11892	94.2
	Yes	2	1.7	663	5.3
	Not Reported	1	0.9	72	0.6
<b>On VAD at Transplant</b>	No	116	99.1	12187	96.5
	Yes	0	0.0	366	2.9
	Not Reported	1	0.9	74	0.6
<b>On IABP at Transplant</b>	No	109	93.2	11754	93.1
	Yes	7	6.0	801	6.3
	Not Reported	1	0.9	72	0.6
<b>Diagnosis at Transplant</b>	Coronary Artery Disease	81	69.2	5222	41.4
	Cardiomyopathy	31	26.5	5779	45.8
	Eisenmenger's Syndrome/Congenital	0	0.0	933	7.4
	Valvular Heart Disease	5	4.3	476	3.8
	Other Diagnosis	0	0.0	183	1.4
	Not Reported	0	0.0	34	0.3
<b>Medical Condition at Transplant</b>	Not Hospitalized	66	56.4	5606	44.4
	Hospitalized	16	13.7	986	7.8
	In ICU	35	29.9	6019	47.7
	Not Reported	0	0.0	16	0.1
<b>Cold Ischemia Time</b>	Up to 2 hrs	24	20.5	3458	27.4
	> 2 - 2.5 hrs	13	11.1	2271	18.0
	> 2.5 - 3 hrs	12	10.3	2408	19.1
	> 3 - 3.5 hrs	22	18.8	1949	15.4
	> 3.5 hrs	46	39.3	2453	19.4
	Not Reported	0	0.0	88	0.7
<b>Year of Transplant</b>	1988	19	16.2	1649	13.1
	1989	24	20.5	1677	13.3
	1990	18	15.4	2071	16.4
	1991	20	17.1	2098	16.6
	1992	19	16.2	2145	17.0
	1993	16	13.7	2266	17.9
	1994	1	0.9	721	5.7

Source: UNOS OPTN/Scientific Registry data.

## Heart Transplants: January 1, 1988 - April 30, 1994

Survival Report for Children's Hospital of the King's Daughters - Norfolk VA  
Provider Number 493301 (VACH)Graft Survival

	Era 1: 1/1/88-4/30/92			Era 2: 5/1/92-4/30/94			Overall: 1/1/88-4/30/94						
Time Point	No. of TX	Act. Rate (%)	Exp. Rate (%)	No. of TX	Act. Rate (%)	Exp. Rate (%)	No. of TX	No. <sup>1</sup> w/CFU	No. Failed	Act. Rate (%)	Exp. Rate (%)	Diff. (%)	p- <sup>2</sup> value
1 Month	11	81.8	84.2	3	66.7	81.2	14	14	3	78.6	83.6	-5.0	0.60
1 Year	11	72.7	68.4	3	66.7	69.0	14	14	4	71.4	68.5	2.9	0.81
Cond. <sup>3</sup> 3 Years	8	75.0	87.6				8	8	2	75.0	87.6	-12.6	0.27
3 Years <sup>3</sup>		54.5	59.9										

Patient Survival

	Era 1: 1/1/88-4/30/92			Era 2: 5/1/92-4/30/94			Overall: 1/1/88-4/30/94						
Time Point	No. of Pts. <sup>4</sup>	Act. Rate (%)	Exp. Rate (%)	No. of Pts. <sup>4</sup>	Act. Rate (%)	Exp. Rate (%)	No. of Pts. <sup>4</sup>	No. <sup>1,5</sup> w/CFU	No. <sup>5</sup> Died	Act. Rate (%)	Exp. Rate (%)	Diff. (%)	p- <sup>2</sup> value
1 Month	11	81.8	84.0	3	66.7	81.4	14	14.0	3.0	78.6	83.5	-4.9	0.61
1 Year	11	72.7	69.3	3	66.7	69.8	14	14.0	4.0	71.4	69.4	2.0	0.86
Cond. <sup>3</sup> 3 Years	8	75.0	88.0				8	8.0	2.0	75.0	88.0	-13.0	0.25
3 Years <sup>3</sup>		54.5	61.0										

Notes: <sup>1</sup> No. with complete follow-up (CFU) is the total of the number of patients (grafts) whose status was known during the specified time interval.

<sup>2</sup> A p-value followed by an \* indicates that the difference is statistically significant at the 0.05 level.

<sup>3</sup> Conditional 3 year survival rates are the survival rates conditional on survival at 1 year. These are computed based on transplants between 1/1/88 and 4/30/92. Three year survival rates are computed by multiplying the 1 year and the conditional 3 year survival rates.

<sup>4</sup> The numbers of patients in Era 1 and Era 2 do not necessarily add up to the number of patients in the overall period, due to repeat transplants in different eras for some patients.

<sup>5</sup> No. w/CFU or No. Died may be fractional if patients received more than one transplant at the program.

Source: UNOS OPTN/Scientific Registry data.



**Heart Transplants: January 1, 1988 - April 30, 1994**  
**Donor and Recipient Characteristics: Program and National Frequencies**

**Children's Hospital of the King's Daughters - Norfolk VA**  
**Provider Number 493301 (VACH)**

		----- Program -----		--- National ---	
		Number	%	Number	%
<b>Total Transplants and Percentages</b>		<b>14</b>	<b>100.0</b>	<b>12627</b>	<b>100.0</b>
<b>Donor Age</b>	0-5	12	85.7	799	6.3
	6-10	1	7.1	274	2.2
	11-17	0	0.0	2029	16.1
	18-49	1	7.1	8923	70.7
	50-64	0	0.0	589	4.7
	65+	0	0.0	12	0.1
	Not Reported	0	0.0	1	0.0
<b>Donor Gender</b>	Female	6	42.9	3728	29.5
	Male	8	57.1	8899	70.5
<b>Donor Race</b>	White	10	71.4	10036	79.5
	Black	4	28.6	1263	10.0
	Hispanic	0	0.0	1143	9.1
	Asian	0	0.0	90	0.7
	Other	0	0.0	87	0.7
	Not Reported	0	0.0	8	0.1
<b>Recipient Age</b>	<1	9	64.3	549	4.3
	1-10	4	28.6	431	3.4
	11-17	1	7.1	358	2.8
	18-49	0	0.0	4493	35.6
	50-64	0	0.0	6373	50.5
	65+	0	0.0	423	3.3
<b>Recipient Gender</b>	Female	8	57.1	2761	21.9
	Male	6	42.9	9866	78.1
<b>Recipient Race</b>	White	7	50.0	10504	83.2
	Black	7	50.0	1206	9.6
	Hispanic	0	0.0	570	4.5
	Asian	0	0.0	125	1.0
	Other	0	0.0	216	1.7
	Not Reported	0	0.0	6	0.0

		----- Program -----		--- National ---	
		Number	%	Number	%
<b>Previous Heart Transplant</b>	No	14	100.0	12231	96.9
	Yes	0	0.0	344	2.7
	Not Reported	0	0.0	52	0.4
<b>On Ventilator at Transplant</b>	No	10	71.4	11892	94.2
	Yes	4	28.6	663	5.3
	Not Reported	0	0.0	72	0.6
<b>On VAD at Transplant</b>	No	14	100.0	12187	96.5
	Yes	0	0.0	366	2.9
	Not Reported	0	0.0	74	0.6
<b>On IABP at Transplant</b>	No	13	92.9	11754	93.1
	Yes	1	7.1	801	6.3
	Not Reported	0	0.0	72	0.6
<b>Diagnosis at Transplant</b>	Coronary Artery Disease	0	0.0	5222	41.4
	Cardiomyopathy	5	35.7	5779	45.8
	Eisenmenger's Syndrome/Congenital	9	64.3	933	7.4
	Valvular Heart Disease	0	0.0	476	3.8
	Other Diagnosis	0	0.0	183	1.4
	Not Reported	0	0.0	34	0.3
<b>Medical Condition at Transplant</b>	Not Hospitalized	2	14.3	5606	44.4
	Hospitalized	0	0.0	986	7.8
	In ICU	12	85.7	6019	47.7
	Not Reported	0	0.0	16	0.1
<b>Cold Ischemia Time</b>	Up to 2 hrs	3	21.4	3458	27.4
	> 2 - 2.5 hrs	1	7.1	2271	18.0
	> 2.5 - 3 hrs	0	0.0	2408	19.1
	> 3 - 3.5 hrs	2	14.3	1949	15.4
	> 3.5 hrs	8	57.1	2453	19.4
	Not Reported	0	0.0	88	0.7
<b>Year of Transplant</b>	1988	0	0.0	1649	13.1
	1989	0	0.0	1677	13.3
	1990	7	50.0	2071	16.4
	1991	3	21.4	2098	16.6
	1992	3	21.4	2145	17.0
	1993	1	7.1	2266	17.9
	1994	0	0.0	721	5.7

Source: UNOS OPTN/Scientific Registry data.

## Heart Transplants: January 1, 1988 - April 30, 1994

Survival Report for Inova Fairfax Hospital - Falls Church VA  
Provider Number 490063 (VAFH)Graft Survival

	Era 1: 1/1/88-4/30/92			Era 2: 5/1/92-4/30/94			Overall: 1/1/88-4/30/94						
Time Point	No. of TX	Act. Rate (%)	Exp. Rate (%)	No. of TX	Act. Rate (%)	Exp. Rate (%)	No. of TX	No. <sup>1</sup> w/CFU	No. Failed	Act. Rate (%)	Exp. Rate (%)	Diff. (%)	p- <sup>2</sup> value
1 Month	47	97.9	94.0	32	96.9	92.1	79	79	2	97.5	93.2	4.2	0.12
1 Year	47	93.6	84.7	32	87.5	81.7	79	79	7	91.1	83.5	7.6	0.06
Cond. <sup>3</sup> 3 Years	44	88.4	90.3				44	43	5	88.4	90.3	-1.9	0.67
3 Years <sup>3</sup>		82.8	76.5										

Patient Survival

	Era 1: 1/1/88-4/30/92			Era 2: 5/1/92-4/30/94			Overall: 1/1/88-4/30/94						
Time Point	No. of Pts. <sup>4</sup>	Act. Rate (%)	Exp. Rate (%)	No. of Pts. <sup>4</sup>	Act. Rate (%)	Exp. Rate (%)	No. of Pts. <sup>4</sup>	No. <sup>1,5</sup> w/CFU	No. <sup>5</sup> Died	Act. Rate (%)	Exp. Rate (%)	Diff. (%)	p- <sup>2</sup> value
1 Month	47	97.8	94.4	32	98.4	93.0	78	78.0	1.5	98.1	93.8	4.2	0.11
1 Year	47	93.5	85.4	32	88.9	82.8	78	78.0	6.5	91.7	84.4	7.3	0.07
Cond. <sup>3</sup> 3 Years	44	88.4	90.8				44	43.0	5.0	88.4	90.8	-2.4	0.59
3 Years <sup>3</sup>		82.7	77.5										

Notes: <sup>1</sup> No. with complete follow-up (CFU) is the total of the number of patients (grafts) whose status was known during the specified time interval.

<sup>2</sup> A p-value followed by an \* indicates that the difference is statistically significant at the 0.05 level.

<sup>3</sup> Conditional 3 year survival rates are the survival rates conditional on survival at 1 year. These are computed based on transplants between 1/1/88 and 4/30/92. Three year survival rates are computed by multiplying the 1 year and the conditional 3 year survival rates.

<sup>4</sup> The numbers of patients in Era 1 and Era 2 do not necessarily add up to the number of patients in the overall period, due to repeat transplants in different eras for some patients.

<sup>5</sup> No. w/CFU or No. Died may be fractional if patients received more than one transplant at the program.

Source: UNOS OPTN/Scientific Registry data.

**Heart Transplants: January 1, 1988 - April 30, 1994**  
**Donor and Recipient Characteristics: Program and National Frequencies**

**Inova Fairfax Hospital - Falls Church VA**  
**Provider Number 490063 (VAFH)**

		---- Program ----		--- National ---	
		Number	%	Number	%
<b>Total Transplants and Percentages</b>		<b>79</b>	<b>100.0</b>	<b>12627</b>	<b>100.0</b>
<b>Donor Age</b>	0-5	0	0.0	799	6.3
	6-10	0	0.0	274	2.2
	11-17	12	15.2	2029	16.1
	18-49	63	79.7	8923	70.7
	50-64	4	5.1	589	4.7
	65+	0	0.0	12	0.1
	Not Reported	0	0.0	1	0.0
<b>Donor Gender</b>	Female	24	30.4	3728	29.5
	Male	55	69.6	8899	70.5
<b>Donor Race</b>	White	48	60.8	10036	79.5
	Black	26	32.9	1263	10.0
	Hispanic	4	5.1	1143	9.1
	Asian	0	0.0	90	0.7
	Other	1	1.3	87	0.7
	Not Reported	0	0.0	8	0.1
<b>Recipient Age</b>	<1	0	0.0	549	4.3
	1-10	0	0.0	431	3.4
	11-17	3	3.8	358	2.8
	18-49	33	41.8	4493	35.6
	50-64	41	51.9	6373	50.5
	65+	2	2.5	423	3.3
<b>Recipient Gender</b>	Female	10	12.7	2761	21.9
	Male	69	87.3	9866	78.1
<b>Recipient Race</b>	White	63	79.7	10504	83.2
	Black	11	13.9	1206	9.6
	Hispanic	1	1.3	570	4.5
	Asian	0	0.0	125	1.0
	Other	4	5.1	216	1.7
	Not Reported	0	0.0	6	0.0

		----- Program -----		--- National ---	
		Number	%	Number	%
<b>Previous Heart Transplant</b>	No	78	98.7	12231	96.9
	Yes	1	1.3	344	2.7
	Not Reported	0	0.0	52	0.4
<b>On Ventilator at Transplant</b>	No	78	98.7	11892	94.2
	Yes	1	1.3	663	5.3
	Not Reported	0	0.0	72	0.6
<b>On VAD at Transplant</b>	No	67	84.8	12187	96.5
	Yes	12	15.2	366	2.9
	Not Reported	0	0.0	74	0.6
<b>On IABP at Transplant</b>	No	76	96.2	11754	93.1
	Yes	3	3.8	801	6.3
	Not Reported	0	0.0	72	0.6
<b>Diagnosis at Transplant</b>	Coronary Artery Disease	2	2.5	5222	41.4
	Cardiomyopathy	75	94.9	5779	45.8
	Eisenmenger's Syndrome/Congenital	2	2.5	933	7.4
	Valvular Heart Disease	0	0.0	476	3.8
	Other Diagnosis	0	0.0	183	1.4
	Not Reported	0	0.0	34	0.3
<b>Medical Condition at Transplant</b>	Not Hospitalized	29	36.7	5606	44.4
	Hospitalized	2	2.5	986	7.8
	In ICU	48	60.8	6019	47.7
	Not Reported	0	0.0	16	0.1
<b>Cold Ischemia Time</b>	Up to 2 hrs	36	45.6	3458	27.4
	> 2 - 2.5 hrs	21	26.6	2271	18.0
	> 2.5 - 3 hrs	8	10.1	2408	19.1
	> 3 - 3.5 hrs	5	6.3	1949	15.4
	> 3.5 hrs	9	11.4	2453	19.4
	Not Reported	0	0.0	88	0.7
<b>Year of Transplant</b>	1988	9	11.4	1649	13.1
	1989	11	13.9	1677	13.3
	1990	12	15.2	2071	16.4
	1991	10	12.7	2098	16.6
	1992	11	13.9	2145	17.0
	1993	19	24.1	2266	17.9
	1994	7	8.9	721	5.7

Source: UNOS OPTN/Scientific Registry data.

## Heart Transplants: January 1, 1988 - April 30, 1994

Survival Report for Columbia Henrico Doctors' Hospital - Richmond VA  
Provider Number 490118 (VAHD)Graft Survival

	Era 1: 1/1/88-4/30/92			Era 2: 5/1/92-4/30/94			Overall: 1/1/88-4/30/94						
Time Point	No. of TX	Act. Rate (%)	Exp. Rate (%)	No. of TX	Act. Rate (%)	Exp. Rate (%)	No. of TX	No. <sup>1</sup> w/CFU	No. Failed	Act. Rate (%)	Exp. Rate (%)	Diff. (%)	p- <sup>2</sup> value
1 Month	29	86.2	89.6	24	95.8	92.1	53	53	5	90.6	90.7	-0.2	0.96
1 Year	29	72.4	77.9	24	83.3	82.3	53	53	12	77.4	79.9	-2.5	0.63
Cond. <sup>3</sup> 3 Years	21	90.3	89.5				21	20	2	90.3	89.5	0.8	0.91
3 Years <sup>3</sup>		65.4	69.7										

Patient Survival

	Era 1: 1/1/88-4/30/92			Era 2: 5/1/92-4/30/94			Overall: 1/1/88-4/30/94						
Time Point	No. of Pts. <sup>4</sup>	Act. Rate (%)	Exp. Rate (%)	No. of Pts. <sup>4</sup>	Act. Rate (%)	Exp. Rate (%)	No. of Pts. <sup>4</sup>	No. <sup>1,5</sup> w/CFU	No. <sup>5</sup> Died	Act. Rate (%)	Exp. Rate (%)	Diff. (%)	p- <sup>2</sup> value
1 Month	28	89.3	90.6	24	95.8	92.5	52	52.0	4.0	92.3	91.4	0.9	0.82
1 Year	28	75.0	79.3	24	83.3	82.8	52	52.0	11.0	78.8	80.9	-2.1	0.69
Cond. <sup>3</sup> 3 Years	21	90.3	90.1				21	20.0	2.0	90.3	90.1	0.2	0.98
3 Years <sup>3</sup>		67.7	71.4										

Notes: <sup>1</sup> No. with complete follow-up (CFU) is the total of the number of patients (grafts) whose status was known during the specified time interval.

<sup>2</sup> A p-value followed by an \* indicates that the difference is statistically significant at the 0.05 level.

<sup>3</sup> Conditional 3 year survival rates are the survival rates conditional on survival at 1 year. These are computed based on transplants between 1/1/88 and 4/30/92. Three year survival rates are computed by multiplying the 1 year and the conditional 3 year survival rates.

<sup>4</sup> The numbers of patients in Era 1 and Era 2 do not necessarily add up to the number of patients in the overall period, due to repeat transplants in different eras for some patients.

<sup>5</sup> No. w/CFU or No. Died may be fractional if patients received more than one transplant at the program.

Source: UNOS OPTN/Scientific Registry data.

**Heart Transplants: January 1, 1988 - April 30, 1994**  
**Donor and Recipient Characteristics: Program and National Frequencies**

**Columbia Henrico Doctors' Hospital - Richmond VA**  
**Provider Number 490118 (VAHD)**

		----- Program -----		--- National ---	
		Number	%	Number	%
<b>Total Transplants and Percentages</b>		<b>53</b>	<b>100.0</b>	<b>12627</b>	<b>100.0</b>
<b>Donor Age</b>	0-5	0	0.0	799	6.3
	6-10	1	1.9	274	2.2
	11-17	7	13.2	2029	16.1
	18-49	41	77.4	8923	70.7
	50-64	4	7.5	589	4.7
	65+	0	0.0	12	0.1
	Not Reported	0	0.0	1	0.0
<b>Donor Gender</b>	Female	17	32.1	3728	29.5
	Male	36	67.9	8899	70.5
<b>Donor Race</b>	White	44	83.0	10036	79.5
	Black	9	17.0	1263	10.0
	Hispanic	0	0.0	1143	9.1
	Asian	0	0.0	90	0.7
	Other	0	0.0	87	0.7
	Not Reported	0	0.0	8	0.1
<b>Recipient Age</b>	<1	0	0.0	549	4.3
	1-10	1	1.9	431	3.4
	11-17	0	0.0	358	2.8
	18-49	15	28.3	4493	35.6
	50-64	35	66.0	6373	50.5
	65+	2	3.8	423	3.3
<b>Recipient Gender</b>	Female	12	22.6	2761	21.9
	Male	41	77.4	9866	78.1
<b>Recipient Race</b>	White	46	86.8	10504	83.2
	Black	7	13.2	1206	9.6
	Hispanic	0	0.0	570	4.5
	Asian	0	0.0	125	1.0
	Other	0	0.0	216	1.7
	Not Reported	0	0.0	6	0.0



		----- Program -----		--- National ---	
		Number	%	Number	%
<b>Previous Heart Transplant</b>	No	48	90.6	12231	96.9
	Yes	4	7.5	344	2.7
	Not Reported	1	1.9	52	0.4
<b>On Ventilator at Transplant</b>	No	49	92.5	11892	94.2
	Yes	2	3.8	663	5.3
	Not Reported	2	3.8	72	0.6
<b>On VAD at Transplant</b>	No	51	96.2	12187	96.5
	Yes	1	1.9	366	2.9
	Not Reported	1	1.9	74	0.6
<b>On IABP at Transplant</b>	No	43	81.1	11754	93.1
	Yes	8	15.1	801	6.3
	Not Reported	2	3.8	72	0.6
<b>Diagnosis at Transplant</b>	Coronary Artery Disease	27	50.9	5222	41.4
	Cardiomyopathy	24	45.3	5779	45.8
	Eisenmenger's Syndrome/Congenital	0	0.0	933	7.4
	Valvular Heart Disease	1	1.9	476	3.8
	Other Diagnosis	0	0.0	183	1.4
	Not Reported	1	1.9	34	0.3
<b>Medical Condition at Transplant</b>	Not Hospitalized	6	11.3	5606	44.4
	Hospitalized	2	3.8	986	7.8
	In ICU	43	81.1	6019	47.7
	Not Reported	2	3.8	16	0.1
<b>Cold Ischemia Time</b>	Up to 2 hrs	2	3.8	3458	27.4
	> 2 - 2.5 hrs	14	26.4	2271	18.0
	> 2.5 - 3 hrs	12	22.6	2408	19.1
	> 3 - 3.5 hrs	14	26.4	1949	15.4
	> 3.5 hrs	7	13.2	2453	19.4
	Not Reported	4	7.5	88	0.7
<b>Year of Transplant</b>	1988	0	0.0	1649	13.1
	1989	1	1.9	1677	13.3
	1990	10	18.9	2071	16.4
	1991	11	20.8	2098	16.6
	1992	17	32.1	2145	17.0
	1993	12	22.6	2266	17.9
	1994	2	3.8	721	5.7

Source: UNOS OPTN/Scientific Registry data.

## Heart Transplants: January 1, 1988 - April 30, 1994

Survival Report for Medical College of Virginia Hospitals - Richmond VA  
Provider Number 490032 (VAMC)Graft Survival

	Era 1: 1/1/88-4/30/92			Era 2: 5/1/92-4/30/94			Overall: 1/1/88-4/30/94						
Time Point	No. of TX	Act. Rate (%)	Exp. Rate (%)	No. of TX	Act. Rate (%)	Exp. Rate (%)	No. of TX	No. <sup>1</sup> w/CFU	No. Failed	Act. Rate (%)	Exp. Rate (%)	Diff. (%)	p- <sup>2</sup> value
1 Month	111	91.0	91.6	20	70.0	86.6	131	131	16	87.8	90.8	-3.0	0.22
1 Year	111	79.3	81.0	20	55.0	74.0	131	131	32	75.6	79.9	-4.4	0.20
Cond. <sup>3</sup> 3 Years	88	87.4	90.0				88	87	11	87.4	90.0	-2.6	0.42
3 Years <sup>3</sup>		69.3	72.9										

Patient Survival

	Era 1: 1/1/88-4/30/92			Era 2: 5/1/92-4/30/94			Overall: 1/1/88-4/30/94						
Time Point	No. of Pts. <sup>4</sup>	Act. Rate (%)	Exp. Rate (%)	No. of Pts. <sup>4</sup>	Act. Rate (%)	Exp. Rate (%)	No. of Pts. <sup>4</sup>	No. <sup>1,5</sup> w/CFU	No. <sup>5</sup> Died	Act. Rate (%)	Exp. Rate (%)	Diff. (%)	p- <sup>2</sup> value
1 Month	109	90.8	92.0	19	73.0	88.4	127	127.0	15.0	88.2	91.4	-3.3	0.18
1 Year	109	78.8	81.9	19	59.5	76.7	127	127.0	30.5	76.0	81.1	-5.1	0.13
Cond. <sup>3</sup> 3 Years	86	89.5	90.4				86	85.0	9.0	89.5	90.4	-1.0	0.76
3 Years <sup>3</sup>		70.5	74.0										

Notes: <sup>1</sup> No. with complete follow-up (CFU) is the total of the number of patients (grafts) whose status was known during the specified time interval.

<sup>2</sup> A p-value followed by an \* indicates that the difference is statistically significant at the 0.05 level.

<sup>3</sup> Conditional 3 year survival rates are the survival rates conditional on survival at 1 year. These are computed based on transplants between 1/1/88 and 4/30/92. Three year survival rates are computed by multiplying the 1 year and the conditional 3 year survival rates.

<sup>4</sup> The numbers of patients in Era 1 and Era 2 do not necessarily add up to the number of patients in the overall period, due to repeat transplants in different eras for some patients.

<sup>5</sup> No. w/CFU or No. Died may be fractional if patients received more than one transplant at the program.

Source: UNOS OPTN/Scientific Registry data.

**Heart Transplants: January 1, 1988 - April 30, 1994**  
**Donor and Recipient Characteristics: Program and National Frequencies**

**Medical College of Virginia Hospitals - Richmond VA**  
**Provider Number 490032 (VAMC)**

		----- Program -----		--- National ---	
		Number	%	Number	%
<b>Total Transplants and Percentages</b>		<b>131</b>	<b>100.0</b>	<b>12627</b>	<b>100.0</b>
<b>Donor Age</b>	0-5	7	5.3	799	6.3
	6-10	4	3.1	274	2.2
	11-17	28	21.4	2029	16.1
	18-49	84	64.1	8923	70.7
	50-64	6	4.6	589	4.7
	65+	2	1.5	12	0.1
	Not Reported	0	0.0	1	0.0
<b>Donor Gender</b>	Female	53	40.5	3728	29.5
	Male	78	59.5	8899	70.5
<b>Donor Race</b>	White	103	78.6	10036	79.5
	Black	22	16.8	1263	10.0
	Hispanic	6	4.6	1143	9.1
	Asian	0	0.0	90	0.7
	Other	0	0.0	87	0.7
	Not Reported	0	0.0	8	0.1
<b>Recipient Age</b>	<1	7	5.3	549	4.3
	1-10	3	2.3	431	3.4
	11-17	6	4.6	358	2.8
	18-49	54	41.2	4493	35.6
	50-64	59	45.0	6373	50.5
	65+	2	1.5	423	3.3
<b>Recipient Gender</b>	Female	32	24.4	2761	21.9
	Male	99	75.6	9866	78.1
<b>Recipient Race</b>	White	96	73.3	10504	83.2
	Black	31	23.7	1206	9.6
	Hispanic	4	3.1	570	4.5
	Asian	0	0.0	125	1.0
	Other	0	0.0	216	1.7
	Not Reported	0	0.0	6	0.0

		----- Program -----		--- National ---	
		Number	%	Number	%
<b>Previous Heart Transplant</b>	No	126	96.2	12231	96.9
	Yes	5	3.8	344	2.7
	Not Reported	0	0.0	52	0.4
<b>On Ventilator at Transplant</b>	No	120	91.6	11892	94.2
	Yes	11	8.4	663	5.3
	Not Reported	0	0.0	72	0.6
<b>On VAD at Transplant</b>	No	128	97.7	12187	96.5
	Yes	0	0.0	366	2.9
	Not Reported	3	2.3	74	0.6
<b>On IABP at Transplant</b>	No	122	93.1	11754	93.1
	Yes	7	5.3	801	6.3
	Not Reported	2	1.5	72	0.6
<b>Diagnosis at Transplant</b>	Coronary Artery Disease	53	40.5	5222	41.4
	Cardiomyopathy	56	42.7	5779	45.8
	Eisenmenger's Syndrome/Congenital	10	7.6	933	7.4
	Valvular Heart Disease	8	6.1	476	3.8
	Other Diagnosis	4	3.1	183	1.4
	Not Reported	0	0.0	34	0.3
<b>Medical Condition at Transplant</b>	Not Hospitalized	24	18.3	5606	44.4
	Hospitalized	29	22.1	986	7.8
	In ICU	78	59.5	6019	47.7
	Not Reported	0	0.0	16	0.1
<b>Cold Ischemia Time</b>	Up to 2 hrs	27	20.6	3458	27.4
	> 2 - 2.5 hrs	20	15.3	2271	18.0
	> 2.5 - 3 hrs	19	14.5	2408	19.1
	> 3 - 3.5 hrs	32	24.4	1949	15.4
	> 3.5 hrs	31	23.7	2453	19.4
	Not Reported	2	1.5	88	0.7
<b>Year of Transplant</b>	1988	46	35.1	1649	13.1
	1989	17	13.0	1677	13.3
	1990	19	14.5	2071	16.4
	1991	25	19.1	2098	16.6
	1992	15	11.5	2145	17.0
	1993	8	6.1	2266	17.9
	1994	1	0.8	721	5.7

Source: UNOS OPTN/Scientific Registry data.

## Heart Transplants: January 1, 1988 - April 30, 1994

Survival Report for McGuire VA Medical Center - Richmond VA  
Provider Number 49010F (VAMV)Graft Survival

	Era 1: 1/1/88-4/30/92			Era 2: 5/1/92-4/30/94			Overall: 1/1/88-4/30/94						
Time Point	No. of TX	Act. Rate (%)	Exp. Rate (%)	No. of TX	Act. Rate (%)	Exp. Rate (%)	No. of TX	No. <sup>1</sup> w/CFU	No. Failed	Act. Rate (%)	Exp. Rate (%)	Diff. (%)	p- <sup>2</sup> value
1 Month	59	94.9	93.3	17	88.2	93.9	76	76	5	93.4	93.4	-0.0	1.00
1 Year	59	84.7	83.1	17	88.2	85.5	76	76	11	85.5	83.7	1.9	0.65
Cond. <sup>3</sup> 3 Years	50	98.0	89.9				50	49	1	98.0	89.9	8.1	0.06
3 Years <sup>3</sup>		83.0	74.7										

Patient Survival

	Era 1: 1/1/88-4/30/92			Era 2: 5/1/92-4/30/94			Overall: 1/1/88-4/30/94						
Time Point	No. of Pts. <sup>4</sup>	Act. Rate (%)	Exp. Rate (%)	No. of Pts. <sup>4</sup>	Act. Rate (%)	Exp. Rate (%)	No. of Pts. <sup>4</sup>	No. <sup>1,5</sup> w/CFU	No. <sup>5</sup> Died	Act. Rate (%)	Exp. Rate (%)	Diff. (%)	p- <sup>2</sup> value
1 Month	58	94.8	93.7	17	88.2	94.2	75	75.0	5.0	93.3	93.8	-0.5	0.86
1 Year	58	86.2	84.0	17	88.2	86.0	75	75.0	10.0	86.7	84.4	2.2	0.59
Cond. <sup>3</sup> 3 Years	50	98.0	90.4				50	49.0	1.0	98.0	90.4	7.6	0.07
3 Years <sup>3</sup>		84.5	75.9										

Notes: <sup>1</sup> No. with complete follow-up (CFU) is the total of the number of patients (grafts) whose status was known during the specified time interval.

<sup>2</sup> A p-value followed by an \* indicates that the difference is statistically significant at the 0.05 level.

<sup>3</sup> Conditional 3 year survival rates are the survival rates conditional on survival at 1 year. These are computed based on transplants between 1/1/88 and 4/30/92. Three year survival rates are computed by multiplying the 1 year and the conditional 3 year survival rates.

<sup>4</sup> The numbers of patients in Era 1 and Era 2 do not necessarily add up to the number of patients in the overall period, due to repeat transplants in different eras for some patients.

<sup>5</sup> No. w/CFU or No. Died may be fractional if patients received more than one transplant at the program.

Source: UNOS OPTN/Scientific Registry data.

**Heart Transplants: January 1, 1988 - April 30, 1994**  
**Donor and Recipient Characteristics: Program and National Frequencies**

**McGuire VA Medical Center - Richmond VA**  
**Provider Number 49010F (VAMV)**

		----- Program -----		--- National ---	
		Number	%	Number	%
<b>Total Transplants and Percentages</b>		<b>76</b>	<b>100.0</b>	<b>12627</b>	<b>100.0</b>
<b>Donor Age</b>	0-5	0	0.0	799	6.3
	6-10	0	0.0	274	2.2
	11-17	16	21.1	2029	16.1
	18-49	56	73.7	8923	70.7
	50-64	4	5.3	589	4.7
	65+	0	0.0	12	0.1
	Not Reported	0	0.0	1	0.0
<b>Donor Gender</b>	Female	18	23.7	3728	29.5
	Male	58	76.3	8899	70.5
<b>Donor Race</b>	White	60	78.9	10036	79.5
	Black	14	18.4	1263	10.0
	Hispanic	2	2.6	1143	9.1
	Asian	0	0.0	90	0.7
	Other	0	0.0	87	0.7
	Not Reported	0	0.0	8	0.1
<b>Recipient Age</b>	<1	0	0.0	549	4.3
	1-10	0	0.0	431	3.4
	11-17	0	0.0	358	2.8
	18-49	34	44.7	4493	35.6
	50-64	42	55.3	6373	50.5
	65+	0	0.0	423	3.3
<b>Recipient Gender</b>	Female	2	2.6	2761	21.9
	Male	74	97.4	9866	78.1
<b>Recipient Race</b>	White	55	72.4	10504	83.2
	Black	18	23.7	1206	9.6
	Hispanic	2	2.6	570	4.5
	Asian	0	0.0	125	1.0
	Other	1	1.3	216	1.7
	Not Reported	0	0.0	6	0.0

		----- Program -----		--- National ---	
		Number	%	Number	%
<b>Previous Heart Transplant</b>	No	75	98.7	12231	96.9
	Yes	1	1.3	344	2.7
	Not Reported	0	0.0	52	0.4
<b>On Ventilator at Transplant</b>	No	76	100.0	11892	94.2
	Yes	0	0.0	663	5.3
	Not Reported	0	0.0	72	0.6
<b>On VAD at Transplant</b>	No	76	100.0	12187	96.5
	Yes	0	0.0	366	2.9
	Not Reported	0	0.0	74	0.6
<b>On IABP at Transplant</b>	No	75	98.7	11754	93.1
	Yes	1	1.3	801	6.3
	Not Reported	0	0.0	72	0.6
<b>Diagnosis at Transplant</b>	Coronary Artery Disease	41	53.9	5222	41.4
	Cardiomyopathy	27	35.5	5779	45.8
	Eisenmenger's Syndrome/Congenital	0	0.0	933	7.4
	Valvular Heart Disease	4	5.3	476	3.8
	Other Diagnosis	4	5.3	183	1.4
	Not Reported	0	0.0	34	0.3
<b>Medical Condition at Transplant</b>	Not Hospitalized	9	11.8	5606	44.4
	Hospitalized	26	34.2	986	7.8
	In ICU	41	53.9	6019	47.7
	Not Reported	0	0.0	16	0.1
<b>Cold Ischemia Time</b>	Up to 2 hrs	13	17.1	3458	27.4
	> 2 - 2.5 hrs	6	7.9	2271	18.0
	> 2.5 - 3 hrs	23	30.3	2408	19.1
	> 3 - 3.5 hrs	11	14.5	1949	15.4
	> 3.5 hrs	13	17.1	2453	19.4
	Not Reported	10	13.2	88	0.7
<b>Year of Transplant</b>	1988	27	35.5	1649	13.1
	1989	11	14.5	1677	13.3
	1990	10	13.2	2071	16.4
	1991	10	13.2	2098	16.6
	1992	7	9.2	2145	17.0
	1993	6	7.9	2266	17.9
	1994	5	6.6	721	5.7

Source: UNOS OPTN/Scientific Registry data.



## Heart Transplants: January 1, 1988 - April 30, 1994

Survival Report for Sentara Norfolk General Hospital - Norfolk VA  
Provider Number 490007 (VANG)Graft Survival

	Era 1: 1/1/88-4/30/92			Era 2: 5/1/92-4/30/94			Overall: 1/1/88-4/30/94						
Time Point	No. of TX	Act. Rate (%)	Exp. Rate (%)	No. of TX	Act. Rate (%)	Exp. Rate (%)	No. of TX	No. <sup>1</sup> w/CFU	No. Failed	Act. Rate (%)	Exp. Rate (%)	Diff. (%)	p- <sup>2</sup> value
1 Month	50	92.0	92.1	20	95.0	91.6	70	70	5	92.9	92.0	0.9	0.78
1 Year	50	84.0	82.2	20	90.0	80.2	70	70	10	85.7	81.6	4.1	0.37
Cond. <sup>3</sup> 3 Years	42	88.1	90.4				42	42	5	88.1	90.4	-2.3	0.61
3 Years <sup>3</sup>		74.0	74.3										

Patient Survival

	Era 1: 1/1/88-4/30/92			Era 2: 5/1/92-4/30/94			Overall: 1/1/88-4/30/94						
Time Point	No. of Pts. <sup>4</sup>	Act. Rate (%)	Exp. Rate (%)	No. of Pts. <sup>4</sup>	Act. Rate (%)	Exp. Rate (%)	No. of Pts. <sup>4</sup>	No. <sup>1,5</sup> w/CFU	No. <sup>5</sup> Died	Act. Rate (%)	Exp. Rate (%)	Diff. (%)	p- <sup>2</sup> value
1 Month	50	91.9	92.5	20	94.9	92.2	69	69.0	5.0	92.8	92.4	0.3	0.91
1 Year	50	83.8	82.8	20	92.3	81.4	69	69.0	9.5	86.2	82.4	3.8	0.39
Cond. <sup>3</sup> 3 Years	42	90.5	90.8				42	41.0	4.0	90.5	90.8	-0.4	0.93
3 Years <sup>3</sup>		75.8	75.2										

Notes: <sup>1</sup> No. with complete follow-up (CFU) is the total of the number of patients (grafts) whose status was known during the specified time interval.

<sup>2</sup> A p-value followed by an \* indicates that the difference is statistically significant at the 0.05 level.

<sup>3</sup> Conditional 3 year survival rates are the survival rates conditional on survival at 1 year. These are computed based on transplants between 1/1/88 and 4/30/92. Three year survival rates are computed by multiplying the 1 year and the conditional 3 year survival rates.

<sup>4</sup> The numbers of patients in Era 1 and Era 2 do not necessarily add up to the number of patients in the overall period, due to repeat transplants in different eras for some patients.

<sup>5</sup> No. w/CFU or No. Died may be fractional if patients received more than one transplant at the program.

Source: UNOS OPTN/Scientific Registry data.

**Heart Transplants: January 1, 1988 - April 30, 1994**  
**Donor and Recipient Characteristics: Program and National Frequencies**

**Sentara Norfolk General Hospital - Norfolk VA**  
**Provider Number 490007 (VANG)**

		----- Program -----		--- National ---	
		Number	%	Number	%
<b>Total Transplants and Percentages</b>		<b>70</b>	<b>100.0</b>	<b>12627</b>	<b>100.0</b>
<b>Donor Age</b>	0-5	0	0.0	799	6.3
	6-10	2	2.9	274	2.2
	11-17	12	17.1	2029	16.1
	18-49	52	74.3	8923	70.7
	50-64	4	5.7	589	4.7
	65+	0	0.0	12	0.1
	Not Reported	0	0.0	1	0.0
<b>Donor Gender</b>	Female	24	34.3	3728	29.5
	Male	46	65.7	8899	70.5
<b>Donor Race</b>	White	50	71.4	10036	79.5
	Black	17	24.3	1263	10.0
	Hispanic	2	2.9	1143	9.1
	Asian	0	0.0	90	0.7
	Other	1	1.4	87	0.7
	Not Reported	0	0.0	8	0.1
<b>Recipient Age</b>	<1	0	0.0	549	4.3
	1-10	0	0.0	431	3.4
	11-17	0	0.0	358	2.8
	18-49	30	42.9	4493	35.6
	50-64	40	57.1	6373	50.5
	65+	0	0.0	423	3.3
<b>Recipient Gender</b>	Female	18	25.7	2761	21.9
	Male	52	74.3	9866	78.1
<b>Recipient Race</b>	White	55	78.6	10504	83.2
	Black	15	21.4	1206	9.6
	Hispanic	0	0.0	570	4.5
	Asian	0	0.0	125	1.0
	Other	0	0.0	216	1.7
	Not Reported	0	0.0	6	0.0

		----- Program -----		--- National ---	
		Number	%	Number	%
<b>Previous Heart Transplant</b>	No	68	97.1	12231	96.9
	Yes	2	2.9	344	2.7
	Not Reported	0	0.0	52	0.4
<b>On Ventilator at Transplant</b>	No	64	91.4	11892	94.2
	Yes	5	7.1	663	5.3
	Not Reported	1	1.4	72	0.6
<b>On VAD at Transplant</b>	No	65	92.9	12187	96.5
	Yes	4	5.7	366	2.9
	Not Reported	1	1.4	74	0.6
<b>On IABP at Transplant</b>	No	65	92.9	11754	93.1
	Yes	4	5.7	801	6.3
	Not Reported	1	1.4	72	0.6
<b>Diagnosis at Transplant</b>	Coronary Artery Disease	40	57.1	5222	41.4
	Cardiomyopathy	30	42.9	5779	45.8
	Eisenmenger's Syndrome/Congenital	0	0.0	933	7.4
	Valvular Heart Disease	0	0.0	476	3.8
	Other Diagnosis	0	0.0	183	1.4
	Not Reported	0	0.0	34	0.3
<b>Medical Condition at Transplant</b>	Not Hospitalized	15	21.4	5606	44.4
	Hospitalized	3	4.3	986	7.8
	In ICU	52	74.3	6019	47.7
	Not Reported	0	0.0	16	0.1
<b>Cold Ischemia Time</b>	Up to 2 hrs	34	48.6	3458	27.4
	> 2 - 2.5 hrs	10	14.3	2271	18.0
	> 2.5 - 3 hrs	6	8.6	2408	19.1
	> 3 - 3.5 hrs	11	15.7	1949	15.4
	> 3.5 hrs	9	12.9	2453	19.4
	Not Reported	0	0.0	88	0.7
<b>Year of Transplant</b>	1988	0	0.0	1649	13.1
	1989	10	14.3	1677	13.3
	1990	16	22.9	2071	16.4
	1991	21	30.0	2098	16.6
	1992	8	11.4	2145	17.0
	1993	9	12.9	2266	17.9
	1994	6	8.6	721	5.7

Source: UNOS OPTN/Scientific Registry data.

**Response From: Sentara Norfolk General Hospital  
600 Gresham Drive, Norfolk, VA 23507  
Provider Number 490007 (VANG)**

May 15, 1997

The Sentara Norfolk General Hospital Heart Transplant Program appreciates the opportunity to discuss the most recent UNOS report of Center Specific Graft and Patient Survival Rate for Cardiac Transplantation. We are pleased that our results continue to be excellent reflecting the commitment and dedication of our program to patients with end stage cardiac disease. Our current five year actuarial graft and patient survival is 71.8% and 74.1%, respectively.

We are particularly pleased with the results obtained at our center given the increased acuity of our patients. As reflected in the report a large percentage of our patients continue to be intensive care unit bound on inotropic support at the time of transplant, higher than the national average. We also have a higher than usual LVAD rate and a higher than usual incidence of patients on ventilators at the time of transplant. This is a result of substantially longer waiting times at our center due to an increased recipient to donor ratio in our OPO. This has also resulted in the increased use of LVAD implants in our program which has had a favorable effect upon death while waiting; only three patients have died while waiting since 1996.

A distinctive feature of our program is that we continue to pursue an intention to treat patients following cardiac transplantation with a steroid free immunosuppressive protocol. If patients have a relatively low risk for rejection they are placed on Cyclosporine and Imuran only. Steroids are reserved for specific indications. With this strategy 60% of our patients are not on steroids and only 25% of our patients are committed to long term steroid therapy. We are pleased that our continuing good results demonstrate that patients can do well long term without chronic steroid immunosuppression following cardiac transplantation.

Glenn R. Barnhart, M.D.  
Director, Cardiac Transplantation Program  
Sentara Norfolk General Hospital



## Heart Transplants: January 1, 1988 - April 30, 1994

Survival Report for University of Virginia Health Science Center - Charlottesville VA  
Provider Number 490009 (VAUV)Graft Survival

	Era 1: 1/1/88-4/30/92			Era 2: 5/1/92-4/30/94			Overall: 1/1/88-4/30/94						
Time Point	No. of TX	Act. Rate (%)	Exp. Rate (%)	No. of TX	Act. Rate (%)	Exp. Rate (%)	No. of TX	No. <sup>1</sup> w/CFU	No. Failed	Act. Rate (%)	Exp. Rate (%)	Diff. (%)	p- <sup>2</sup> value
1 Month	54	85.2	91.6	43	90.6	91.0	97	96	12	87.6	91.3	-3.8	0.18
1 Year	54	81.5	82.2	43	85.3	81.4	97	93	16	83.1	81.9	1.2	0.75
Cond. <sup>3</sup> 3 Years	44	88.4	90.9				44	40	5	88.4	90.9	-2.5	0.57
3 Years <sup>3</sup>		72.0	74.7										

Patient Survival

	Era 1: 1/1/88-4/30/92			Era 2: 5/1/92-4/30/94			Overall: 1/1/88-4/30/94						
Time Point	No. of Pts. <sup>4</sup>	Act. Rate (%)	Exp. Rate (%)	No. of Pts. <sup>4</sup>	Act. Rate (%)	Exp. Rate (%)	No. of Pts. <sup>4</sup>	No. <sup>1,5</sup> w/CFU	No. <sup>5</sup> Died	Act. Rate (%)	Exp. Rate (%)	Diff. (%)	p- <sup>2</sup> value
1 Month	54	85.2	92.0	43	90.6	91.4	97	96.0	12.0	87.6	91.7	-4.2	0.13
1 Year	54	81.5	82.9	43	85.3	81.9	97	93.0	16.0	83.1	82.5	0.6	0.87
Cond. <sup>3</sup> 3 Years	44	88.4	91.3				44	40.0	5.0	88.4	91.3	-2.9	0.50
3 Years <sup>3</sup>		72.0	75.7										

Notes: <sup>1</sup> No. with complete follow-up (CFU) is the total of the number of patients (grafts) whose status was known during the specified time interval.

<sup>2</sup> A p-value followed by an \* indicates that the difference is statistically significant at the 0.05 level.

<sup>3</sup> Conditional 3 year survival rates are the survival rates conditional on survival at 1 year. These are computed based on transplants between 1/1/88 and 4/30/92. Three year survival rates are computed by multiplying the 1 year and the conditional 3 year survival rates.

<sup>4</sup> The numbers of patients in Era 1 and Era 2 do not necessarily add up to the number of patients in the overall period, due to repeat transplants in different eras for some patients.

<sup>5</sup> No. w/CFU or No. Died may be fractional if patients received more than one transplant at the program.

Source: UNOS OPTN/Scientific Registry data.

**Heart Transplants: January 1, 1988 - April 30, 1994**  
**Donor and Recipient Characteristics: Program and National Frequencies**

**University of Virginia Health Science Center - Charlottesville VA**  
**Provider Number 490009 (VAUV)**

		----- Program -----		--- National ---	
		Number	%	Number	%
<b>Total Transplants and Percentages</b>		<b>97</b>	<b>100.0</b>	<b>12627</b>	<b>100.0</b>
<b>Donor Age</b>	0-5	6	6.2	799	6.3
	6-10	1	1.0	274	2.2
	11-17	16	16.5	2029	16.1
	18-49	66	68.0	8923	70.7
	50-64	8	8.2	589	4.7
	65+	0	0.0	12	0.1
	Not Reported	0	0.0	1	0.0
<b>Donor Gender</b>	Female	34	35.1	3728	29.5
	Male	63	64.9	8899	70.5
<b>Donor Race</b>	White	92	94.8	10036	79.5
	Black	3	3.1	1263	10.0
	Hispanic	1	1.0	1143	9.1
	Asian	1	1.0	90	0.7
	Other	0	0.0	87	0.7
	Not Reported	0	0.0	8	0.1
<b>Recipient Age</b>	<1	6	6.2	549	4.3
	1-10	0	0.0	431	3.4
	11-17	2	2.1	358	2.8
	18-49	28	28.9	4493	35.6
	50-64	54	55.7	6373	50.5
	65+	7	7.2	423	3.3
<b>Recipient Gender</b>	Female	19	19.6	2761	21.9
	Male	78	80.4	9866	78.1
<b>Recipient Race</b>	White	90	92.8	10504	83.2
	Black	7	7.2	1206	9.6
	Hispanic	0	0.0	570	4.5
	Asian	0	0.0	125	1.0
	Other	0	0.0	216	1.7
	Not Reported	0	0.0	6	0.0



		----- Program -----		--- National ---	
		Number	%	Number	%
<b>Previous Heart Transplant</b>	No	96	99.0	12231	96.9
	Yes	0	0.0	344	2.7
	Not Reported	1	1.0	52	0.4
<b>On Ventilator at Transplant</b>	No	91	93.8	11892	94.2
	Yes	4	4.1	663	5.3
	Not Reported	2	2.1	72	0.6
<b>On VAD at Transplant</b>	No	92	94.8	12187	96.5
	Yes	3	3.1	366	2.9
	Not Reported	2	2.1	74	0.6
<b>On IABP at Transplant</b>	No	91	93.8	11754	93.1
	Yes	4	4.1	801	6.3
	Not Reported	2	2.1	72	0.6
<b>Diagnosis at Transplant</b>	Coronary Artery Disease	40	41.2	5222	41.4
	Cardiomyopathy	40	41.2	5779	45.8
	Eisenmenger's Syndrome/Congenital	7	7.2	933	7.4
	Valvular Heart Disease	7	7.2	476	3.8
	Other Diagnosis	3	3.1	183	1.4
	Not Reported	0	0.0	34	0.3
<b>Medical Condition at Transplant</b>	Not Hospitalized	57	58.8	5606	44.4
	Hospitalized	5	5.2	986	7.8
	In ICU	34	35.1	6019	47.7
	Not Reported	1	1.0	16	0.1
<b>Cold Ischemia Time</b>	Up to 2 hrs	22	22.7	3458	27.4
	> 2 - 2.5 hrs	16	16.5	2271	18.0
	> 2.5 - 3 hrs	27	27.8	2408	19.1
	> 3 - 3.5 hrs	14	14.4	1949	15.4
	> 3.5 hrs	17	17.5	2453	19.4
	Not Reported	1	1.0	88	0.7
<b>Year of Transplant</b>	1988	0	0.0	1649	13.1
	1989	2	2.1	1677	13.3
	1990	18	18.6	2071	16.4
	1991	25	25.8	2098	16.6
	1992	24	24.7	2145	17.0
	1993	22	22.7	2266	17.9
	1994	6	6.2	721	5.7

Source: UNOS OPTN/Scientific Registry data.



## Heart Transplants: January 1, 1988 - April 30, 1994

Survival Report for Sacred Heart Medical Center - Spokane WA  
Provider Number 500054 (WASH)Graft Survival

	Era 1: 1/1/88-4/30/92			Era 2: 5/1/92-4/30/94			Overall: 1/1/88-4/30/94						
Time Point	No. of TX	Act. Rate (%)	Exp. Rate (%)	No. of TX	Act. Rate (%)	Exp. Rate (%)	No. of TX	No. <sup>1</sup> w/CFU	No. Failed	Act. Rate (%)	Exp. Rate (%)	Diff. (%)	p- <sup>2</sup> value
1 Month	32	96.9	91.4	23	100.0	91.9	55	55	1	98.2	91.6	6.6	0.07
1 Year	32	93.8	81.4	23	100.0	82.6	55	55	2	96.4	81.9	14.5	<0.01*
Cond. <sup>3</sup> 3 Years	30	96.7	90.0				30	30	1	96.7	90.0	6.7	0.22
3 Years <sup>3</sup>		90.6	73.2										

Patient Survival

	Era 1: 1/1/88-4/30/92			Era 2: 5/1/92-4/30/94			Overall: 1/1/88-4/30/94						
Time Point	No. of Pts. <sup>4</sup>	Act. Rate (%)	Exp. Rate (%)	No. of Pts. <sup>4</sup>	Act. Rate (%)	Exp. Rate (%)	No. of Pts. <sup>4</sup>	No. <sup>1,5</sup> w/CFU	No. <sup>5</sup> Died	Act. Rate (%)	Exp. Rate (%)	Diff. (%)	p- <sup>2</sup> value
1 Month	32	96.9	91.9	23	100.0	92.5	55	55.0	1.0	98.2	92.1	6.0	0.09
1 Year	32	93.8	82.1	23	100.0	83.3	55	55.0	2.0	96.4	82.6	13.8	<0.01*
Cond. <sup>3</sup> 3 Years	30	96.7	90.6				30	30.0	1.0	96.7	90.6	6.1	0.25
3 Years <sup>3</sup>		90.6	74.4										

Notes: <sup>1</sup> No. with complete follow-up (CFU) is the total of the number of patients (grafts) whose status was known during the specified time interval.

<sup>2</sup> A p-value followed by an \* indicates that the difference is statistically significant at the 0.05 level.

<sup>3</sup> Conditional 3 year survival rates are the survival rates conditional on survival at 1 year. These are computed based on transplants between 1/1/88 and 4/30/92. Three year survival rates are computed by multiplying the 1 year and the conditional 3 year survival rates.

<sup>4</sup> The numbers of patients in Era 1 and Era 2 do not necessarily add up to the number of patients in the overall period, due to repeat transplants in different eras for some patients.

<sup>5</sup> No. w/CFU or No. Died may be fractional if patients received more than one transplant at the program.

Source: UNOS OPTN/Scientific Registry data.

**Heart Transplants: January 1, 1988 - April 30, 1994**  
**Donor and Recipient Characteristics: Program and National Frequencies**

**Sacred Heart Medical Center - Spokane WA**  
**Provider Number 500054 (WASH)**

		----- Program -----		--- National ---	
		Number	%	Number	%
<b>Total Transplants and Percentages</b>		<b>55</b>	<b>100.0</b>	<b>12627</b>	<b>100.0</b>
<b>Donor Age</b>	0-5	0	0.0	799	6.3
	6-10	0	0.0	274	2.2
	11-17	6	10.9	2029	16.1
	18-49	39	70.9	8923	70.7
	50-64	10	18.2	589	4.7
	65+	0	0.0	12	0.1
	Not Reported	0	0.0	1	0.0
<b>Donor Gender</b>	Female	26	47.3	3728	29.5
	Male	29	52.7	8899	70.5
<b>Donor Race</b>	White	48	87.3	10036	79.5
	Black	2	3.6	1263	10.0
	Hispanic	3	5.5	1143	9.1
	Asian	1	1.8	90	0.7
	Other	1	1.8	87	0.7
	Not Reported	0	0.0	8	0.1
<b>Recipient Age</b>	<1	0	0.0	549	4.3
	1-10	0	0.0	431	3.4
	11-17	0	0.0	358	2.8
	18-49	25	45.5	4493	35.6
	50-64	28	50.9	6373	50.5
	65+	2	3.6	423	3.3
<b>Recipient Gender</b>	Female	9	16.4	2761	21.9
	Male	46	83.6	9866	78.1
<b>Recipient Race</b>	White	53	96.4	10504	83.2
	Black	0	0.0	1206	9.6
	Hispanic	0	0.0	570	4.5
	Asian	0	0.0	125	1.0
	Other	2	3.6	216	1.7
	Not Reported	0	0.0	6	0.0

		----- Program -----		--- National ---	
		Number	%	Number	%
<b>Previous Heart Transplant</b>	No	55	100.0	12231	96.9
	Yes	0	0.0	344	2.7
	Not Reported	0	0.0	52	0.4
<b>On Ventilator at Transplant</b>	No	54	98.2	11892	94.2
	Yes	1	1.8	663	5.3
	Not Reported	0	0.0	72	0.6
<b>On VAD at Transplant</b>	No	51	92.7	12187	96.5
	Yes	4	7.3	366	2.9
	Not Reported	0	0.0	74	0.6
<b>On IABP at Transplant</b>	No	55	100.0	11754	93.1
	Yes	0	0.0	801	6.3
	Not Reported	0	0.0	72	0.6
<b>Diagnosis at Transplant</b>	Coronary Artery Disease	30	54.5	5222	41.4
	Cardiomyopathy	24	43.6	5779	45.8
	Eisenmenger's Syndrome/Congenital	0	0.0	933	7.4
	Valvular Heart Disease	0	0.0	476	3.8
	Other Diagnosis	1	1.8	183	1.4
	Not Reported	0	0.0	34	0.3
<b>Medical Condition at Transplant</b>	Not Hospitalized	34	61.8	5606	44.4
	Hospitalized	4	7.3	986	7.8
	In ICU	17	30.9	6019	47.7
	Not Reported	0	0.0	16	0.1
<b>Cold Ischemia Time</b>	Up to 2 hrs	20	36.4	3458	27.4
	> 2 - 2.5 hrs	5	9.1	2271	18.0
	> 2.5 - 3 hrs	9	16.4	2408	19.1
	> 3 - 3.5 hrs	9	16.4	1949	15.4
	> 3.5 hrs	12	21.8	2453	19.4
	Not Reported	0	0.0	88	0.7
<b>Year of Transplant</b>	1988	0	0.0	1649	13.1
	1989	0	0.0	1677	13.3
	1990	17	30.9	2071	16.4
	1991	13	23.6	2098	16.6
	1992	8	14.5	2145	17.0
	1993	13	23.6	2266	17.9
	1994	4	7.3	721	5.7

Source: UNOS OPTN/Scientific Registry data.

## Heart Transplants: January 1, 1988 - April 30, 1994

Survival Report for University of Washington Medical Center - Seattle WA  
Provider Number 500008 (WAUW)Graft Survival

	Era 1: 1/1/88-4/30/92			Era 2: 5/1/92-4/30/94			Overall: 1/1/88-4/30/94						
Time Point	No. of TX	Act. Rate (%)	Exp. Rate (%)	No. of TX	Act. Rate (%)	Exp. Rate (%)	No. of TX	No. <sup>1</sup> w/CFU	No. Failed	Act. Rate (%)	Exp. Rate (%)	Diff. (%)	p- <sup>2</sup> value
1 Month	81	90.1	93.3	39	92.3	93.2	120	120	11	90.8	93.3	-2.4	0.28
1 Year	81	87.7	84.7	39	89.7	85.0	120	120	14	88.3	84.8	3.6	0.27
Cond. <sup>3</sup> 3 Years	71	94.3	90.9				71	69	4	94.3	90.9	3.5	0.31
3 Years <sup>3</sup>		82.7	76.9										

Patient Survival

	Era 1: 1/1/88-4/30/92			Era 2: 5/1/92-4/30/94			Overall: 1/1/88-4/30/94						
Time Point	No. of Pts. <sup>4</sup>	Act. Rate (%)	Exp. Rate (%)	No. of Pts. <sup>4</sup>	Act. Rate (%)	Exp. Rate (%)	No. of Pts. <sup>4</sup>	No. <sup>1,5</sup> w/CFU	No. <sup>5</sup> Died	Act. Rate (%)	Exp. Rate (%)	Diff. (%)	p- <sup>2</sup> value
1 Month	79	93.0	94.0	39	92.3	93.6	118	118.0	8.5	92.8	93.9	-1.1	0.61
1 Year	79	89.9	85.9	39	89.7	85.5	118	118.0	12.0	89.8	85.7	4.1	0.19
Cond. <sup>3</sup> 3 Years	71	94.3	91.4				71	69.0	4.0	94.3	91.4	2.9	0.38
3 Years <sup>3</sup>		84.8	78.5										

Notes: <sup>1</sup> No. with complete follow-up (CFU) is the total of the number of patients (grafts) whose status was known during the specified time interval.

<sup>2</sup> A p-value followed by an \* indicates that the difference is statistically significant at the 0.05 level.

<sup>3</sup> Conditional 3 year survival rates are the survival rates conditional on survival at 1 year. These are computed based on transplants between 1/1/88 and 4/30/92. Three year survival rates are computed by multiplying the 1 year and the conditional 3 year survival rates.

<sup>4</sup> The numbers of patients in Era 1 and Era 2 do not necessarily add up to the number of patients in the overall period, due to repeat transplants in different eras for some patients.

<sup>5</sup> No. w/CFU or No. Died may be fractional if patients received more than one transplant at the program.

Source: UNOS OPTN/Scientific Registry data.

**Heart Transplants: January 1, 1988 - April 30, 1994**  
**Donor and Recipient Characteristics: Program and National Frequencies**

**University of Washington Medical Center - Seattle WA**  
**Provider Number 500008 (WAUW)**

		----- Program -----		--- National ---	
		Number	%	Number	%
<b>Total Transplants and Percentages</b>		<b>120</b>	<b>100.0</b>	<b>12627</b>	<b>100.0</b>
<b>Donor Age</b>	0-5	0	0.0	799	6.3
	6-10	1	0.8	274	2.2
	11-17	25	20.8	2029	16.1
	18-49	91	75.8	8923	70.7
	50-64	3	2.5	589	4.7
	65+	0	0.0	12	0.1
	Not Reported	0	0.0	1	0.0
<b>Donor Gender</b>	Female	19	15.8	3728	29.5
	Male	101	84.2	8899	70.5
<b>Donor Race</b>	White	114	95.0	10036	79.5
	Black	1	0.8	1263	10.0
	Hispanic	1	0.8	1143	9.1
	Asian	1	0.8	90	0.7
	Other	3	2.5	87	0.7
	Not Reported	0	0.0	8	0.1
<b>Recipient Age</b>	<1	0	0.0	549	4.3
	1-10	0	0.0	431	3.4
	11-17	1	0.8	358	2.8
	18-49	57	47.5	4493	35.6
	50-64	60	50.0	6373	50.5
	65+	2	1.7	423	3.3
<b>Recipient Gender</b>	Female	27	22.5	2761	21.9
	Male	93	77.5	9866	78.1
<b>Recipient Race</b>	White	108	90.0	10504	83.2
	Black	3	2.5	1206	9.6
	Hispanic	3	2.5	570	4.5
	Asian	2	1.7	125	1.0
	Other	4	3.3	216	1.7
	Not Reported	0	0.0	6	0.0

		----- Program -----		--- National ---	
		Number	%	Number	%
<b>Previous Heart Transplant</b>	No	118	98.3	12231	96.9
	Yes	2	1.7	344	2.7
	Not Reported	0	0.0	52	0.4
<b>On Ventilator at Transplant</b>	No	114	95.0	11892	94.2
	Yes	6	5.0	663	5.3
	Not Reported	0	0.0	72	0.6
<b>On VAD at Transplant</b>	No	119	99.2	12187	96.5
	Yes	1	0.8	366	2.9
	Not Reported	0	0.0	74	0.6
<b>On IABP at Transplant</b>	No	115	95.8	11754	93.1
	Yes	5	4.2	801	6.3
	Not Reported	0	0.0	72	0.6
<b>Diagnosis at Transplant</b>	Coronary Artery Disease	51	42.5	5222	41.4
	Cardiomyopathy	57	47.5	5779	45.8
	Eisenmenger's Syndrome/Congenital	1	0.8	933	7.4
	Valvular Heart Disease	8	6.7	476	3.8
	Other Diagnosis	3	2.5	183	1.4
	Not Reported	0	0.0	34	0.3
<b>Medical Condition at Transplant</b>	Not Hospitalized	76	63.3	5606	44.4
	Hospitalized	10	8.3	986	7.8
	In ICU	34	28.3	6019	47.7
	Not Reported	0	0.0	16	0.1
<b>Cold Ischemia Time</b>	Up to 2 hrs	43	35.8	3458	27.4
	> 2 - 2.5 hrs	18	15.0	2271	18.0
	> 2.5 - 3 hrs	16	13.3	2408	19.1
	> 3 - 3.5 hrs	16	13.3	1949	15.4
	> 3.5 hrs	27	22.5	2453	19.4
	Not Reported	0	0.0	88	0.7
<b>Year of Transplant</b>	1988	17	14.2	1649	13.1
	1989	13	10.8	1677	13.3
	1990	20	16.7	2071	16.4
	1991	24	20.0	2098	16.6
	1992	21	17.5	2145	17.0
	1993	18	15.0	2266	17.9
	1994	7	5.8	721	5.7

Source: UNOS OPTN/Scientific Registry data.

**Response From: University of Washington Medical Center  
1959 NE Pacific Street, Seattle, WA 98195  
Provider Number 500008 (WAUW)**

May 8, 1997

The University of Washington Heart Transplant Program consists of a multidisciplinary team dedicated to providing outstanding transplant care with compassion, integrity, and respect for individual dignity. The program is committed to improving our expertise through innovative research and continuous education in order to give patients with organ failure an opportunity to pursue a higher quality of life. This commitment is reflected in this UNOS report which reveals that our one year patient and graft survival rates continue to be significantly better than expected despite the complex patients that are referred to our institution for transplantation.

The University of Washington Medical Center provides a full range of transplantation expertise including kidney, pancreas, liver, heart, and lung transplantation. The University of Washington Medical Center has been ranked among the top hospitals in the country according to the U.S. News and World Report in 1996 annual guide to "America's Best Hospitals". In addition, the University of Washington School of Medicine recently celebrated fifty years of teaching, research, and patient care and ranks in the top 10 schools for NIH research dollars.

Edward D. Verrier, MD  
Chief, Division of Cardiothoracic Surgery  
UW Heart Transplant Program





## Heart Transplants: January 1, 1988 - April 30, 1994

Survival Report for Children's Hospital of Wisconsin - Milwaukee WI  
Provider Number 523300 (WICH)Graft Survival

	Era 1: 1/1/88-4/30/92			Era 2: 5/1/92-4/30/94			Overall: 1/1/88-4/30/94						
Time Point	No. of TX	Act. Rate (%)	Exp. Rate (%)	No. of TX	Act. Rate (%)	Exp. Rate (%)	No. of TX	No. <sup>1</sup> w/CFU	No. Failed	Act. Rate (%)	Exp. Rate (%)	Diff. (%)	p- <sup>2</sup> value
1 Month	1	100.0	91.3	2	100.0	92.1	3	3	0	100.0	91.8	8.2	0.79
1 Year	1	0.0	81.5	2	50.0	85.6	3	3	2	33.3	84.2	-50.9	0.07
Cond. <sup>3</sup> 3 Years													
3 Years <sup>3</sup>													

Patient Survival

	Era 1: 1/1/88-4/30/92			Era 2: 5/1/92-4/30/94			Overall: 1/1/88-4/30/94						
Time Point	No. of Pts. <sup>4</sup>	Act. Rate (%)	Exp. Rate (%)	No. of Pts. <sup>4</sup>	Act. Rate (%)	Exp. Rate (%)	No. of Pts. <sup>4</sup>	No. <sup>1,5</sup> w/CFU	No. <sup>5</sup> Died	Act. Rate (%)	Exp. Rate (%)	Diff. (%)	p- <sup>2</sup> value
1 Month	1	100.0	91.4	2	100.0	92.7	3	3.0	0.0	100.0	92.3	7.7	0.80
1 Year	1	0.0	82.8	2	50.0	86.5	3	3.0	2.0	33.3	85.2	-51.9	0.06
Cond. <sup>3</sup> 3 Years													
3 Years <sup>3</sup>													

Notes: <sup>1</sup> No. with complete follow-up (CFU) is the total of the number of patients (grafts) whose status was known during the specified time interval.

<sup>2</sup> A p-value followed by an \* indicates that the difference is statistically significant at the 0.05 level.

<sup>3</sup> Conditional 3 year survival rates are the survival rates conditional on survival at 1 year. These are computed based on transplants between 1/1/88 and 4/30/92. Three year survival rates are computed by multiplying the 1 year and the conditional 3 year survival rates.

<sup>4</sup> The numbers of patients in Era 1 and Era 2 do not necessarily add up to the number of patients in the overall period, due to repeat transplants in different eras for some patients.

<sup>5</sup> No. w/CFU or No. Died may be fractional if patients received more than one transplant at the program.

Source: UNOS OPTN/Scientific Registry data.

**Heart Transplants: January 1, 1988 - April 30, 1994**  
**Donor and Recipient Characteristics: Program and National Frequencies**

**Children's Hospital of Wisconsin - Milwaukee WI**  
**Provider Number 523300 (WICH)**

		----- Program -----		--- National ---	
		Number	%	Number	%
<b>Total Transplants and Percentages</b>		<b>3</b>	<b>100.0</b>	<b>12627</b>	<b>100.0</b>
<b>Donor Age</b>	0-5	0	0.0	799	6.3
	6-10	3	100.0	274	2.2
	11-17	0	0.0	2029	16.1
	18-49	0	0.0	8923	70.7
	50-64	0	0.0	589	4.7
	65+	0	0.0	12	0.1
	Not Reported	0	0.0	1	0.0
<b>Donor Gender</b>	Female	1	33.3	3728	29.5
	Male	2	66.7	8899	70.5
<b>Donor Race</b>	White	3	100.0	10036	79.5
	Black	0	0.0	1263	10.0
	Hispanic	0	0.0	1143	9.1
	Asian	0	0.0	90	0.7
	Other	0	0.0	87	0.7
	Not Reported	0	0.0	8	0.1
<b>Recipient Age</b>	<1	0	0.0	549	4.3
	1-10	2	66.7	431	3.4
	11-17	1	33.3	358	2.8
	18-49	0	0.0	4493	35.6
	50-64	0	0.0	6373	50.5
	65+	0	0.0	423	3.3
<b>Recipient Gender</b>	Female	2	66.7	2761	21.9
	Male	1	33.3	9866	78.1
<b>Recipient Race</b>	White	3	100.0	10504	83.2
	Black	0	0.0	1206	9.6
	Hispanic	0	0.0	570	4.5
	Asian	0	0.0	125	1.0
	Other	0	0.0	216	1.7
	Not Reported	0	0.0	6	0.0

		----- Program -----		--- National ---	
		Number	%	Number	%
<b>Previous Heart Transplant</b>	No	2	66.7	12231	96.9
	Yes	0	0.0	344	2.7
	Not Reported	1	33.3	52	0.4
<b>On Ventilator at Transplant</b>	No	3	100.0	11892	94.2
	Yes	0	0.0	663	5.3
	Not Reported	0	0.0	72	0.6
<b>On VAD at Transplant</b>	No	3	100.0	12187	96.5
	Yes	0	0.0	366	2.9
	Not Reported	0	0.0	74	0.6
<b>On IABP at Transplant</b>	No	3	100.0	11754	93.1
	Yes	0	0.0	801	6.3
	Not Reported	0	0.0	72	0.6
<b>Diagnosis at Transplant</b>	Coronary Artery Disease	0	0.0	5222	41.4
	Cardiomyopathy	2	66.7	5779	45.8
	Eisenmenger's Syndrome/Congenital	1	33.3	933	7.4
	Valvular Heart Disease	0	0.0	476	3.8
	Other Diagnosis	0	0.0	183	1.4
	Not Reported	0	0.0	34	0.3
<b>Medical Condition at Transplant</b>	Not Hospitalized	3	100.0	5606	44.4
	Hospitalized	0	0.0	986	7.8
	In ICU	0	0.0	6019	47.7
	Not Reported	0	0.0	16	0.1
<b>Cold Ischemia Time</b>	Up to 2 hrs	0	0.0	3458	27.4
	> 2 - 2.5 hrs	1	33.3	2271	18.0
	> 2.5 - 3 hrs	0	0.0	2408	19.1
	> 3 - 3.5 hrs	0	0.0	1949	15.4
	> 3.5 hrs	2	66.7	2453	19.4
	Not Reported	0	0.0	88	0.7
<b>Year of Transplant</b>	1988	0	0.0	1649	13.1
	1989	0	0.0	1677	13.3
	1990	0	0.0	2071	16.4
	1991	1	33.3	2098	16.6
	1992	0	0.0	2145	17.0
	1993	1	33.3	2266	17.9
	1994	1	33.3	721	5.7

Source: UNOS OPTN/Scientific Registry data.

## Heart Transplants: January 1, 1988 - April 30, 1994

Survival Report for John L. Doyne Hospital - Milwaukee WI  
Provider Number 520174 (WIMC)Graft Survival

	Era 1: 1/1/88-4/30/92			Era 2: 5/1/92-4/30/94			Overall: 1/1/88-4/30/94						
Time Point	No. of TX	Act. Rate (%)	Exp. Rate (%)	No. of TX	Act. Rate (%)	Exp. Rate (%)	No. of TX	No. <sup>1</sup> w/CFU	No. Failed	Act. Rate (%)	Exp. Rate (%)	Diff. (%)	p- <sup>2</sup> value
1 Month	34	85.3	92.4	6	83.3	90.8	40	40	6	85.0	92.2	-7.2	0.09
1 Year	34	70.6	82.6	6	66.7	79.9	40	40	12	70.0	82.2	-12.2	0.04*
Cond. <sup>3</sup> 3 Years	24	83.3	90.6				24	24	4	83.3	90.6	-7.3	0.22
3 Years <sup>3</sup>		58.8	74.9										

Patient Survival

	Era 1: 1/1/88-4/30/92			Era 2: 5/1/92-4/30/94			Overall: 1/1/88-4/30/94						
Time Point	No. of Pts. <sup>4</sup>	Act. Rate (%)	Exp. Rate (%)	No. of Pts. <sup>4</sup>	Act. Rate (%)	Exp. Rate (%)	No. of Pts. <sup>4</sup>	No. <sup>1,5</sup> w/CFU	No. <sup>5</sup> Died	Act. Rate (%)	Exp. Rate (%)	Diff. (%)	p- <sup>2</sup> value
1 Month	34	85.3	92.7	6	83.3	91.3	40	40.0	6.0	85.0	92.4	-7.4	0.07
1 Year	34	70.6	83.1	6	66.7	80.6	40	40.0	12.0	70.0	82.8	-12.8	0.03*
Cond. <sup>3</sup> 3 Years	24	83.3	91.0				24	24.0	4.0	83.3	91.0	-7.6	0.19
3 Years <sup>3</sup>		58.8	75.6										

Notes: <sup>1</sup> No. with complete follow-up (CFU) is the total of the number of patients (grafts) whose status was known during the specified time interval.

<sup>2</sup> A p-value followed by an \* indicates that the difference is statistically significant at the 0.05 level.

<sup>3</sup> Conditional 3 year survival rates are the survival rates conditional on survival at 1 year. These are computed based on transplants between 1/1/88 and 4/30/92. Three year survival rates are computed by multiplying the 1 year and the conditional 3 year survival rates.

<sup>4</sup> The numbers of patients in Era 1 and Era 2 do not necessarily add up to the number of patients in the overall period, due to repeat transplants in different eras for some patients.

<sup>5</sup> No. w/CFU or No. Died may be fractional if patients received more than one transplant at the program.

Source: UNOS OPTN/Scientific Registry data.

**Heart Transplants: January 1, 1988 - April 30, 1994**  
**Donor and Recipient Characteristics: Program and National Frequencies**

**John L. Doyne Hospital - Milwaukee WI**  
**Provider Number 520174 (WIMC)**

		----- Program -----		--- National ---	
		Number	%	Number	%
<b>Total Transplants and Percentages</b>		<b>40</b>	<b>100.0</b>	<b>12627</b>	<b>100.0</b>
<b>Donor Age</b>	0-5	0	0.0	799	6.3
	6-10	0	0.0	274	2.2
	11-17	8	20.0	2029	16.1
	18-49	32	80.0	8923	70.7
	50-64	0	0.0	589	4.7
	65+	0	0.0	12	0.1
	Not Reported	0	0.0	1	0.0
<b>Donor Gender</b>	Female	11	27.5	3728	29.5
	Male	29	72.5	8899	70.5
<b>Donor Race</b>	White	36	90.0	10036	79.5
	Black	2	5.0	1263	10.0
	Hispanic	2	5.0	1143	9.1
	Asian	0	0.0	90	0.7
	Other	0	0.0	87	0.7
	Not Reported	0	0.0	8	0.1
<b>Recipient Age</b>	<1	0	0.0	549	4.3
	1-10	0	0.0	431	3.4
	11-17	1	2.5	358	2.8
	18-49	13	32.5	4493	35.6
	50-64	25	62.5	6373	50.5
	65+	1	2.5	423	3.3
<b>Recipient Gender</b>	Female	7	17.5	2761	21.9
	Male	33	82.5	9866	78.1
<b>Recipient Race</b>	White	35	87.5	10504	83.2
	Black	4	10.0	1206	9.6
	Hispanic	1	2.5	570	4.5
	Asian	0	0.0	125	1.0
	Other	0	0.0	216	1.7
	Not Reported	0	0.0	6	0.0

		----- Program -----		--- National ---	
		Number	%	Number	%
<b>Previous Heart Transplant</b>	No	39	97.5	12231	96.9
	Yes	1	2.5	344	2.7
	Not Reported	0	0.0	52	0.4
<b>On Ventilator at Transplant</b>	No	36	90.0	11892	94.2
	Yes	4	10.0	663	5.3
	Not Reported	0	0.0	72	0.6
<b>On VAD at Transplant</b>	No	39	97.5	12187	96.5
	Yes	1	2.5	366	2.9
	Not Reported	0	0.0	74	0.6
<b>On IABP at Transplant</b>	No	38	95.0	11754	93.1
	Yes	2	5.0	801	6.3
	Not Reported	0	0.0	72	0.6
<b>Diagnosis at Transplant</b>	Coronary Artery Disease	16	40.0	5222	41.4
	Cardiomyopathy	22	55.0	5779	45.8
	Eisenmenger's Syndrome/Congenital	1	2.5	933	7.4
	Valvular Heart Disease	1	2.5	476	3.8
	Other Diagnosis	0	0.0	183	1.4
	Not Reported	0	0.0	34	0.3
<b>Medical Condition at Transplant</b>	Not Hospitalized	19	47.5	5606	44.4
	Hospitalized	0	0.0	986	7.8
	In ICU	21	52.5	6019	47.7
	Not Reported	0	0.0	16	0.1
<b>Cold Ischemia Time</b>	Up to 2 hrs	17	42.5	3458	27.4
	> 2 - 2.5 hrs	9	22.5	2271	18.0
	> 2.5 - 3 hrs	3	7.5	2408	19.1
	> 3 - 3.5 hrs	6	15.0	1949	15.4
	> 3.5 hrs	5	12.5	2453	19.4
	Not Reported	0	0.0	88	0.7
<b>Year of Transplant</b>	1988	6	15.0	1649	13.1
	1989	8	20.0	1677	13.3
	1990	11	27.5	2071	16.4
	1991	9	22.5	2098	16.6
	1992	4	10.0	2145	17.0
	1993	2	5.0	2266	17.9
	1994	0	0.0	721	5.7

Source: UNOS OPTN/Scientific Registry data.

## Heart Transplants: January 1, 1988 - April 30, 1994

Survival Report for St Luke's Medical Center - Milwaukee WI  
Provider Number 520138 (WISL)Graft Survival

	Era 1: 1/1/88-4/30/92			Era 2: 5/1/92-4/30/94			Overall: 1/1/88-4/30/94						
Time Point	No. of TX	Act. Rate (%)	Exp. Rate (%)	No. of TX	Act. Rate (%)	Exp. Rate (%)	No. of TX	No. <sup>1</sup> w/CFU	No. Failed	Act. Rate (%)	Exp. Rate (%)	Diff. (%)	p- <sup>2</sup> value
1 Month	105	90.5	92.6	55	85.5	91.0	160	160	18	88.8	92.1	-3.3	0.10
1 Year	105	81.0	83.6	55	65.5	81.3	160	160	39	75.6	82.8	-7.2	0.01*
Cond. <sup>3</sup> 3 Years	85	91.8	90.7				85	85	7	91.8	90.7	1.0	0.74
3 Years <sup>3</sup>		74.3	75.9										

Patient Survival

	Era 1: 1/1/88-4/30/92			Era 2: 5/1/92-4/30/94			Overall: 1/1/88-4/30/94						
Time Point	No. of Pts. <sup>4</sup>	Act. Rate (%)	Exp. Rate (%)	No. of Pts. <sup>4</sup>	Act. Rate (%)	Exp. Rate (%)	No. of Pts. <sup>4</sup>	No. <sup>1,5</sup> w/CFU	No. <sup>5</sup> Died	Act. Rate (%)	Exp. Rate (%)	Diff. (%)	p- <sup>2</sup> value
1 Month	104	91.3	93.3	55	85.3	91.8	158	158.0	17.0	89.2	92.8	-3.5	0.08
1 Year	104	82.6	84.5	55	65.1	82.1	158	158.0	37.0	76.6	83.7	-7.1	0.01*
Cond. <sup>3</sup> 3 Years	86	91.9	91.1				86	86.0	7.0	91.9	91.1	0.7	0.81
3 Years <sup>3</sup>		75.9	77.0										

Notes: <sup>1</sup> No. with complete follow-up (CFU) is the total of the number of patients (grafts) whose status was known during the specified time interval.

<sup>2</sup> A p-value followed by an \* indicates that the difference is statistically significant at the 0.05 level.

<sup>3</sup> Conditional 3 year survival rates are the survival rates conditional on survival at 1 year. These are computed based on transplants between 1/1/88 and 4/30/92. Three year survival rates are computed by multiplying the 1 year and the conditional 3 year survival rates.

<sup>4</sup> The numbers of patients in Era 1 and Era 2 do not necessarily add up to the number of patients in the overall period, due to repeat transplants in different eras for some patients.

<sup>5</sup> No. w/CFU or No. Died may be fractional if patients received more than one transplant at the program.

Source: UNOS OPTN/Scientific Registry data.



**Heart Transplants: January 1, 1988 - April 30, 1994**  
**Donor and Recipient Characteristics: Program and National Frequencies**

**St Luke's Medical Center - Milwaukee WI**  
**Provider Number 520138 (WISL)**

		----- Program -----		--- National ---	
		Number	%	Number	%
<b>Total Transplants and Percentages</b>		<b>160</b>	<b>100.0</b>	<b>12627</b>	<b>100.0</b>
<b>Donor Age</b>	0-5	0	0.0	799	6.3
	6-10	1	0.6	274	2.2
	11-17	22	13.8	2029	16.1
	18-49	125	78.1	8923	70.7
	50-64	12	7.5	589	4.7
	65+	0	0.0	12	0.1
	Not Reported	0	0.0	1	0.0
<b>Donor Gender</b>	Female	47	29.4	3728	29.5
	Male	113	70.6	8899	70.5
<b>Donor Race</b>	White	142	88.8	10036	79.5
	Black	12	7.5	1263	10.0
	Hispanic	6	3.8	1143	9.1
	Asian	0	0.0	90	0.7
	Other	0	0.0	87	0.7
	Not Reported	0	0.0	8	0.1
<b>Recipient Age</b>	<1	0	0.0	549	4.3
	1-10	0	0.0	431	3.4
	11-17	1	0.6	358	2.8
	18-49	61	38.1	4493	35.6
	50-64	87	54.4	6373	50.5
	65+	11	6.9	423	3.3
<b>Recipient Gender</b>	Female	42	26.3	2761	21.9
	Male	118	73.8	9866	78.1
<b>Recipient Race</b>	White	144	90.0	10504	83.2
	Black	12	7.5	1206	9.6
	Hispanic	4	2.5	570	4.5
	Asian	0	0.0	125	1.0
	Other	0	0.0	216	1.7
	Not Reported	0	0.0	6	0.0

		----- Program -----		--- National ---	
		Number	%	Number	%
<b>Previous Heart Transplant</b>	No	158	98.8	12231	96.9
	Yes	2	1.3	344	2.7
	Not Reported	0	0.0	52	0.4
<b>On Ventilator at Transplant</b>	No	158	98.8	11892	94.2
	Yes	2	1.3	663	5.3
	Not Reported	0	0.0	72	0.6
<b>On VAD at Transplant</b>	No	140	87.5	12187	96.5
	Yes	20	12.5	366	2.9
	Not Reported	0	0.0	74	0.6
<b>On IABP at Transplant</b>	No	153	95.6	11754	93.1
	Yes	7	4.4	801	6.3
	Not Reported	0	0.0	72	0.6
<b>Diagnosis at Transplant</b>	Coronary Artery Disease	0	0.0	5222	41.4
	Cardiomyopathy	150	93.8	5779	45.8
	Eisenmenger's Syndrome/Congenital	3	1.9	933	7.4
	Valvular Heart Disease	6	3.8	476	3.8
	Other Diagnosis	1	0.6	183	1.4
	Not Reported	0	0.0	34	0.3
<b>Medical Condition at Transplant</b>	Not Hospitalized	53	33.1	5606	44.4
	Hospitalized	8	5.0	986	7.8
	In ICU	99	61.9	6019	47.7
	Not Reported	0	0.0	16	0.1
<b>Cold Ischemia Time</b>	Up to 2 hrs	61	38.1	3458	27.4
	> 2 - 2.5 hrs	39	24.4	2271	18.0
	> 2.5 - 3 hrs	25	15.6	2408	19.1
	> 3 - 3.5 hrs	15	9.4	1949	15.4
	> 3.5 hrs	20	12.5	2453	19.4
	Not Reported	0	0.0	88	0.7
<b>Year of Transplant</b>	1988	22	13.8	1649	13.1
	1989	22	13.8	1677	13.3
	1990	29	18.1	2071	16.4
	1991	27	16.9	2098	16.6
	1992	27	16.9	2145	17.0
	1993	28	17.5	2266	17.9
	1994	5	3.1	721	5.7

Source: UNOS OPTN/Scientific Registry data.

**Response From: St. Luke's Medical Center  
2900 W. Oklahoma Avenue, Milwaukee, WI 53215  
Provider Number 520138 (WISL)**

May 8, 1997

The heart transplant survival rates included in this report focus on data from 1988 to early 1994. When segmented, the data indicates that St. Luke's Medical Center's survival figures from 1988 to April, 1992 nearly matched expected survival rates, and that the survival figures were lower in late 1992 and 1993.

More current data is now available for the larger number of patients receiving heart transplants in the two subsequent years which, when calculated with the methodology used in this report, shows significantly improved statistics. The more recent data indicates that from 1994 through 1996 one-year survival rose to an average of 87% at St. Luke's, which exceeds the 85% national survival figure used as a benchmark in this data release.

This improvement in outcomes resulted from the initiation in 1993 of a Heart Transplant Center Outcome Improvement Project at St. Luke's Medical Center. Through internal quality and outcome tracking measures we had identified the need to reorganize our transplant program in 1993. Several significant program changes were made.

In 1993, the Medical Center's multiple transplant teams merged to form a single team under the medical direction of the surgeon whose team had survival statistics meeting the national benchmark, and with the largest number of patients transplanted. In addition, the authority of the Transplant Medical Director was expanded to cover all major decisions on transplantation and related patient management. Increased standardization was then applied to patient management protocols.

It is also important to note that St. Luke's Medical Center's cardiac transplant program treats a disproportionate number of complex, high risk patients. While differences in acuity are often cited by programs, several indicators clearly demonstrate the higher level of acuity in our patient population. St. Luke's had a 30 percent greater number of patients in the intensive care unit at the time of transplant than the national average for 1988 to April, 1994. More importantly, St. Luke's had 4.3 times more patients on ventricular assist devices at the time of transplant than the national average. These two factors are primary determinants for placing patients in status 1, the UNOS definition for the most urgent of those awaiting heart transplants.

Alfred J. Tector, MD  
Director, Heart Transplant Program



## Heart Transplants: January 1, 1988 - April 30, 1994

Survival Report for University of Wisconsin Hospital and Clinics - Madison WI  
Provider Number 520098 (WIUW)Graft Survival

	Era 1: 1/1/88-4/30/92			Era 2: 5/1/92-4/30/94			Overall: 1/1/88-4/30/94						
Time Point	No. of TX	Act. Rate (%)	Exp. Rate (%)	No. of TX	Act. Rate (%)	Exp. Rate (%)	No. of TX	No. <sup>1</sup> w/CFU	No. Failed	Act. Rate (%)	Exp. Rate (%)	Diff. (%)	p- <sup>2</sup> value
1 Month	56	94.6	92.5	75	90.7	91.6	131	131	10	92.4	92.0	0.4	0.86
1 Year	56	80.4	83.7	75	80.0	82.5	131	131	26	80.2	83.0	-2.9	0.37
Cond. <sup>3</sup> 3 Years	45	91.1	91.5				45	45	4	91.1	91.5	-0.4	0.93
3 Years <sup>3</sup>		73.2	76.6										

Patient Survival

	Era 1: 1/1/88-4/30/92			Era 2: 5/1/92-4/30/94			Overall: 1/1/88-4/30/94						
Time Point	No. of Pts. <sup>4</sup>	Act. Rate (%)	Exp. Rate (%)	No. of Pts. <sup>4</sup>	Act. Rate (%)	Exp. Rate (%)	No. of Pts. <sup>4</sup>	No. <sup>1,5</sup> w/CFU	No. <sup>5</sup> Died	Act. Rate (%)	Exp. Rate (%)	Diff. (%)	p- <sup>2</sup> value
1 Month	55	95.5	93.2	74	91.9	92.4	129	129.0	8.5	93.4	92.8	0.7	0.77
1 Year	55	81.8	84.8	74	81.1	83.5	129	129.0	24.0	81.4	84.0	-2.6	0.40
Cond. <sup>3</sup> 3 Years	45	91.1	91.9				45	45.0	4.0	91.1	91.9	-0.8	0.85
3 Years <sup>3</sup>		74.5	77.9										

Notes: <sup>1</sup> No. with complete follow-up (CFU) is the total of the number of patients (grafts) whose status was known during the specified time interval.

<sup>2</sup> A p-value followed by an \* indicates that the difference is statistically significant at the 0.05 level.

<sup>3</sup> Conditional 3 year survival rates are the survival rates conditional on survival at 1 year. These are computed based on transplants between 1/1/88 and 4/30/92. Three year survival rates are computed by multiplying the 1 year and the conditional 3 year survival rates.

<sup>4</sup> The numbers of patients in Era 1 and Era 2 do not necessarily add up to the number of patients in the overall period, due to repeat transplants in different eras for some patients.

<sup>5</sup> No. w/CFU or No. Died may be fractional if patients received more than one transplant at the program.

Source: UNOS OPTN/Scientific Registry data.











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**Department of Health  
and Human Services**  
Health Resources and Services  
Administration

Heart Volume

ISBN 1-886651-14-0  
ISBN 1-886651-20-5

ISSN 1079-3666



United Network for Organ Sharing